

REVISED

ENFORCEMENT
CONFIDENTIAL

RCRA PRIORITIZATION SYSTEM SCORING SUMMARY

FOR

MAR 26 1993

DURA-BOND STEEL CORPORATION

EPA SITE NUMBER: FLD-982-168-072

JACKSONVILLE, FL

SCORED BY: BONNIE PESKOE-SMITH

OF DYNAMAC CORPORATION

ON 03/05/93

| | |
|----------------------|-------|
| GROUNDWATER SCORE : | 21.01 |
| SURFACE WATER SCORE: | 49.75 |
| AIR ROUTE SCORE : | 8.12 |
| ONSITE SCORE : | 42.86 |

MIGRATION SCORE : 34.71

INDEX NUMBER 421418

WS-1 GROUNDWATER ROUTE

IS THERE AN OBSERVED RELEASE? P

ROUTE CHARACTERISTICS

DEPTH TO AQUIFER (FT.) : 1

NET PRECIPITATION (IN.) : 7

PHYSICAL STATE: LIQUID, GAS, SLUDGE

CONTAINMENT: POOR

WASTE CHARACTERISTICS

CHEMICAL NAME OR WASTE CODE NUMBER: METHYL ETHYL KETONE

TOXICITY/PERSISTENCE VALUE: 6

QUANTITY KNOWN? NO

| | |
|----------------------|---|
| CUBIC YARDS OR TONS: | 0 |
| DRUMS : | 0 |

AMOUNT IS LIKELY TO BE SMALL

TARGETS

GROUNDWATER USE: POSSIBLE DRINKING WATER

DISTANCE TO WELL (MILES): 0.4

WS-2 SURFACE WATER ROUTE

RELEASES

IS THERE AN OBSERVED RELEASE? Y

IS THERE A PERMITTED OUTFALL?

HAVE THERE BEEN PERMIT VIOLATIONS?

ROUTE CHARACTERISTICS

FACILITY LOCATION: NA

24-HOUR RAINFALL: NA

DISTANCE TO SURFACE WATER (MILES): NA

PHYSICAL STATE: NA

CONTAINMENT: NA

WASTE CHARACTERISTICS

CHEMICAL NAME OR WASTE CODE NUMBER: LEAD

TOXICITY/PERSISTENCE VALUE: 18

QUANTITY KNOWN? NO

| | |
|----------------------|---|
| CUBIC YARDS OR TONS: | 0 |
| DRUMS : | 0 |

AMOUNT IS LIKELY TO BE SMALL

TARGETS

SURFACE WATER USE: POSSIBLE DRINKING WATER OR RECREATION

DISTANCE TO INTAKE OR CONTACT POINT (MILES): 0.4

DISTANCE TO SENSITIVE ENVIRONMENT (MILES): 3.0

WS-3 AIR ROUTE

RELEASES

IS THERE AN OBSERVED, UNPERMITTED, ON-GOING RELEASE? N

DOES THE FACILITY HAVE AN AIR OPERATING PERMIT(S)? Y

HAVE THERE BEEN ANY PERMIT VIOLATIONS OR ODOR COMPLAINTS BY RESIDENTS? N

CAN CONTAMINANTS MIGRATE INTO AIR? Y

CONTAINMENT: FAIR

WASTE CHARACTERISTICS

CHEMICAL NAME OR WASTE CODE NUMBER: MEK

TOXICITY/PERSISTENCE VALUE: 2

QUANTITY KNOWN? NO

| | |
|----------------------|---|
| CUBIC YARDS OR TONS: | 0 |
| DRUMS : | 0 |

AMOUNT IS LIKELY TO BE SMALL

TARGETS

POPULATION: RESIDENCES ARE LOCATED WITHIN FOUR MILES

DISTANCE TO SENSITIVE ENVIRONMENT (MILES): 3.0

WS-4 ON SITE CONTAMINATION

ACCESS TO SITE: LIMITED ACCESS

IS THERE AN OBSERVED SURFACE SOIL CONTAMINATION? Y

CONTAINMENT: POOR

WASTE CHARACTERISTICS

CHEMICAL NAME OR WASTE CODE NUMBER: LEAD

TOXICITY/PERSISTENCE VALUE: 3

TARGETS

DISTANCE TO RESIDENTIAL AREAS (MILES): 0.25

IS THERE AN ON-SITE SENSITIVE ENVIRONMENT: N

Blank Page

**ENFORCEMENT
CONFIDENTIAL**

RCRA PRIORITIZATION SYSTEM SCORING SUMMARY

FOR

DURA-BOND STEEL CORPORATION

EPA SITE NUMBER: FLD-982-168-072

JACKSONVILLE, FL

SCORED BY: BONNIE PESKOE-SMITH

OF DYNAMAC CORPORATION

ON 03/05/93

GROUNDWATER SCORE : 73.08

SURFACE WATER SCORE: 57.61

AIR ROUTE SCORE : 47.44

ONSITE SCORE : 42.86

MIGRATION SCORE : 56.45

Revised 2/6/90 421419

WS-1 GROUNDWATER ROUTE

IS THERE AN OBSERVED RELEASE? P

ROUTE CHARACTERISTICS

DEPTH TO AQUIFER (FT.) : *24.1 ft.*

NET PRECIPITATION (IN.) : +7

PHYSICAL STATE: LIQUID, GAS, SLUDGE

CONTAINMENT: POOR

WASTE CHARACTERISTICS

CHEMICAL NAME OR WASTE CODE NUMBER: LEAD *MP*

TOXICITY/PERSISTENCE VALUE: 18

QUANTITY KNOWN? NO

CUBIC YARDS OR TONS: 0
DRUMS : 0

AMOUNT IS LIKELY TO BE SMALL

TARGETS

GROUNDWATER USE: *possible* DRINKING WATER

DISTANCE TO WELL (MILES): 0.4

WS-2 SURFACE WATER ROUTE

RELEASES

IS THERE AN OBSERVED RELEASE? Y
IS THERE A PERMITTED OUTFALL? No
HAVE THERE BEEN PERMIT VIOLATIONS? No

ROUTE CHARACTERISTICS

FACILITY LOCATION: NA
24-HOUR RAINFALL: NA
DISTANCE TO SURFACE WATER (MILES): NA
PHYSICAL STATE: NA

CONTAINMENT: NA

WASTE CHARACTERISTICS

CHEMICAL NAME OR WASTE CODE NUMBER: LEAD
TOXICITY/PERSISTENCE VALUE: 18
QUANTITY KNOWN? NO

CUBIC YARDS OR TONS: 0
DRUMS : 0

AMOUNT IS LIKELY TO BE LARGE ~~SMALL~~

TARGETS

SURFACE WATER USE: POSSIBLE DRINKING WATER OR RECREATION
DISTANCE TO INTAKE OR CONTACT POINT (MILES): < 0.4
DISTANCE TO SENSITIVE ENVIRONMENT (MILES): 3.0

WS-3 AIR ROUTE

RELEASES

IS THERE AN OBSERVED, UNPERMITTED, ON-GOING RELEASE? ☒ NO

DOES THE FACILITY HAVE AN AIR OPERATING PERMIT(S)? ☒ NA

HAVE THERE BEEN ANY PERMIT VIOLATIONS OR ODOR COMPLAINTS BY RESIDENTS? ☒ NA

CAN CONTAMINANTS MIGRATE INTO AIR? ☒ NA

CONTAINMENT: ☒ NA

WASTE CHARACTERISTICS

CHEMICAL NAME OR WASTE CODE NUMBER: LEAD

TOXICITY/PERSISTENCE VALUE: 3

QUANTITY KNOWN? NO

| | |
|----------------------|---|
| CUBIC YARDS OR TONS: | 0 |
| DRUMS : | 0 |

AMOUNT IS LIKELY TO BE SMALL

TARGETS

POPULATION: RESIDENCES ARE LOCATED WITHIN FOUR MILES

DISTANCE TO SENSITIVE ENVIRONMENT (MILES): 3.0

WS-4 ON SITE CONTAMINATION

ACCESS TO SITE: LIMITED ACCESS ✓

IS THERE AN OBSERVED SURFACE SOIL CONTAMINATION? Y ✓

CONTAINMENT: POOR ..

WASTE CHARACTERISTICS

CHEMICAL NAME OR WASTE CODE NUMBER: LEAD ✓

TOXICITY/PERSISTENCE VALUE: 3 ✓

TARGETS

DISTANCE TO RESIDENTIAL AREAS (MILES): 0.25 ✓

IS THERE AN ON-SITE SENSITIVE ENVIRONMENT: N ✓

Blank Page

ENFORCEMENT
CONFIDENTIAL

RCRA PRIORITIZATION SYSTEM SCORING SUMMARY

FOR
DUPA LONG STEEL CORPORATION

EPA SITE NUMBER: FLD782168072
DONAL COUNTY, JACKSONVILLE, FLORIDA

SCORED BY: CONNIE R. DOE SAATCHI
OF DYNAMAC CORPORATION
ON 4/92

GROUND WATER ROUTE SCORE :

SURFACE WATER ROUTE SCORE:

AIR ROUTE SCORE :

ON-SITE SCORE :

MIGRATION SCORE :

Needs
Re-scoring
as noted.

Verbal @ Davy
Simonson
Chp 3-28-93

DOCKET NUMBER

421417

WS-1 GROUND WATER ROUTE

FEPA letter to Pennsylvania dated 8/11/92
 dated 8/11/92 Clearing up one of the
 damage to the site
 FEPA dated 8/11/92, p. 4 & 6 -
 Detailed description of the site
 in the MCLs
 RFA p. 11

A. Is there an observed release?

Yes (45) No (0) Possible (10)

B. Route Characteristics

1b. Depth to Aquifer (ft.)

0-20 (6) 21-75 (4) 76-150 (2) 150+ (0)

2b. Net Precipitation (in.)

<-10 (0) -10 to +5 (2) +5 to +15 (4) >15 (6)

3b. Physical State

Stable Solid (0) Unstable Solid (1) Powder, Ash (2) Liquid, Gas Sludge (3)

C. Containment

Very Good (0) Good (1) Fair (2) Poor (3)

D. Waste Characteristics

1d. Chemical name or waste code number

2d. Toxicity/Persistence Value

0 (0) 3 (3) 6 (6) 9 (9) 12 (12) 15 (15) 18 (18)

3d. Quantity known?

Yes No

Yes? Enter amount: Cu yds or tons _____
 Drums _____ (+ 4 = cu yds)

Total _____

No? Is amount likely to be small

Yes (1)

Is amount likely to be large?

Yes (4)

Are large storage or disposal areas present?

Yes (8)

(only one yes allowed)

E. Targets

1c. Groundwater use:

Drinking water?

Yes (5)

No

Possible drinking water?

Yes (4)

No

Agriculture or industrial?

Yes (3)

No

Quality impacted?

Yes (2)

No

Quality not impacted?

Yes (0)*

No

(only one yes allowed)

2c. Distance to intake (miles)

<1/2 (4) 1/2 to 1 (3) 1 to 2 (2) 2 to 3 (1) >3 (0)

Note:

* Cannot be used if A = 45

WS-2 SURFACE WATER ROUTE

A. Releases

1a. Is there an observed release?

(Yes (45) No (0))

RTA Section III; many references to soil & lack of vegetation

2a. Is there a permitted outfall?

(Yes (5) No (0))

CFA Volume I, Part I Figure B-10 The permitted outfall shown on the diagram is not from a tank

3a. Have there been permit violations?

(Yes (5) No (0))

CFA Volume I, Part I Letter to the Permit dated 11/18/87 warning of No. WN90-0216 H/W/GACD - Not for surface water

B. Route Characteristics

1b. Facility Location

Flood-Prone Area (3)

100-year Flood Plain (2)

Other (1)

Closure Permit App. 3.0 Volume II, Part II p. 7 "small area is within the 100-year flood plain, but is not under 2.1" Rainfall frequency Atlas

2b. 24-hour Rainfall (in.)

<1.0 (0)

1.0 to 2.0 (1)

2.1 to 3.0 (2)

>3.0 (3)

3b. Distance to surface water (miles)

<1/4 (6)

1/4 to 1 (4)

1 to 2 (2)

>2 (0)

4b. Physical State

Stable Solid (0)

Unstable Solid (1)

Powder, Ash (2)

Liquid, Gas Sludge (3)

C. Containment

Very Good (0)

Good (1)

Fair (2)

Poor (3)

RTA p. 18 "soil & lack of vegetation"

D. Waste Characteristics

1d. Chemical name or waste code number

Leach

RTA p. 18

2d. Toxicity/Persistence Value

0 (0)

3 (3)

6 (6)

9 (9)

12 (12)

15 (15)

18 (18)

Tox 1000

3d. Quantity known?

Yes

No

Yes? Enter amount: Cu yds or tons

Drums

(+ 4 = cu yds)

Total

No?

Is amount likely to be small?

Yes (1)

No

Is amount likely to be large?

Yes (4)

No

Are large storage or disposal areas present?

Yes (8)

No

(only one yes allowed)

change to 1000
RTA Section III multiple found

* Note: RTA p. 18 "applying for surface water in 11/18/87 the date of the permit"

SURFACE WATER ROUTE - Continued

E. Targets

| | | | | | | | |
|------------------------|--|---|------------|----------|--------------------------------------|----------|------------------|
| 1e. | Surface Water use: | Drinking water? | Yes (5) | No | REF A p. 11 - 55 flows into river | | |
| | | Possible drinking water? | Yes (4) | No | | | |
| | | -Recreation? | Yes (4) | No | | | |
| | | Agriculture or industrial? | Yes (3) | No | | | |
| | | Quality impacted? | Yes (2) | No | | | |
| | | Quality not impacted but within 3 miles? | Yes (1)* | No | | | |
| | | None within 3 miles? | Yes (0)* | No | | | |
| (only one yes allowed) | | | | | | | |
| 2e. | Distance to intake or contact point (miles) | $\leq 1/2$ | $1/2$ to 1 | 1 to 2 | 2 to 3 | ≥ 3 | REF A p. 11 - 55 |
| | | (4) | (3) | (2) | (1) | (0) | |
| 3e. | Distance to sensitive environment (miles) | $\leq 1/2$ | $1/2$ to 1 | 1 to 2 | ≥ 2 | | REF A p. 11 - 55 |
| | | (6) | (4) | (2) | (0) | | |

Note:

* Cannot be used if A = 45

WS-3 AIR ROUTE

A. Releases

1a. Is there an observed, unpermitted, ongoing release? *Change*

Yes
(45)

No
(0)

2a. Does the facility have an air operating permit? *New Permit 4/93*

Yes
(5)

No
(0)

3a. Have there been any permit violations or odor complaints by residents? *Not Applicable*

Yes
(10)

No
(0)

4a. Can contaminants migrate into air?

Yes
(3)

No
(0)

5a. Containment

Very Good
(0)

Good
(1)

Fair
(2)

Poor
(3)

B. Waste Characteristics

1b. Chemical name or waste code number

2b. Toxicity *change to* 0 (0) 1 (3) 2 (6) 3 (9)

3b. Quantity known?

Yes

No

Yes? Enter amount:

Cubic yards or tons
Drums

(÷ 4 = cu. yds.)

Total

No? Is amount likely to be small?

Yes (1)

No

Is amount likely to be large?

Yes (4)

No

Are large storage or disposal areas present?

Yes (8)

No

(only one yes allowed)

C. Targets

1c. Population

Are residences located within four miles?

Yes (25)

No

Are other industries located within four miles?

Yes (20)

No

Are agricultural lands located within four miles?

Yes (15)

No

Any other situation.

Yes (10)

No

(only one yes allowed)

2c. Distance to sensitive environments (miles)

< 1/2
(6)

1/2 to 1
(4)

1 to 2
(2)

> 2
(0)

no longer available

WS-4 ON-SITE CONTAMINATION

Access to site Inaccessible Limited Access Unlimited Access
 (0) (2) (4)

Is there observed surface soil contamination? Yes No
 (25) (0)

Containment Very Good Good Fair Poor
 (1) (2) (3) (4)

Waste characteristics
 Chemical Name or Waste Code Number MC1
 Toxicity/Persistence Value 0 1 2 3 4 or table
 (0) (1) (2) (3)

Targets
 1e. Distance to residential areas < 1/4 1/4 to 1/2 1/2 to 1 > 1
 (6) (4) (2) (0)

2e. Is there on-site sensitive environment? Yes No no documentation available
 (1) (0)

CALCULATE ON-SITE SCORE (S_o)

If A = 0, then S_o = B x D x (1e + 2e)/21

If A ≠ 0, then S_o = A x (B + C) x D x (1e + 2e)/21^(a)

If B + C > 25, then B + C = 25

^(a) The value 21 standardizes the on-site route score to a value between 0 and 100.

**RCRA FACILITY ASSESSMENT
OF
DURA-BOND STEEL CORPORATION
JACKSONVILLE, FLORIDA**

EPA I.D. FLD982168072

SUBMITTED BY:

**A.T. KEARNEY, INC.
1100 ABERNATHY ROAD
ATLANTA, GA 30328**

SUBMITTED TO:

**MS. ROWENA SHEFFIELD
REGIONAL PROJECT OFFICER
345 COURTLAND STREET
ATLANTA, GA 30365**

IN RESPONSE TO:

**EPA CONTRACT
NO. 68-W9-0040**

**WORK ASSIGNMENT
NO. R04-21-18**

Kearney/Centaur Division
A.T. Kearney, Inc.
1100 Abernathy Road, Suite 900
Atlanta, Georgia 30328-5603
404 393 9900
Facsimile 404 396 3091

Management
Consultants

ATKEARNEY

August 11, 1992

Ms. Rowena Sheffield
Regional Project Officer
U.S. Environmental Protection Agency
345 Courtland Street NE
Atlanta, Georgia 30365

Reference: EPA Contract No. 68-W9-0040; Work Assignment
No. R04-21-18; Dura-Bond Steel Corporation;
Jacksonville, Florida; EPA I.D. No.
FLD982168072; RCRA Facility Assessment; Final
Deliverable

Dear Ms. Sheffield:

Enclosed please find the RCRA Facility Assessment (RFA) for the above-referenced facility. This report presents the results of the Preliminary Review (PR) and the Visual Site Inspection (VSI). The RFA resulted in the identification of 22 Solid Waste Management Units (SWMUs) and 3 Areas of Concern (AOCs).

The Dura-Bond Steel Corporation facility is located in Jacksonville, Florida, approximately five miles west of downtown Jacksonville. The site includes a former steel coating and painting facility, several hazardous waste drum storage areas, a paint shed, and a former waste oil underground storage tank (UST). Hazardous MEK/paint waste (F005) was generated in the coating/painting area from the use of methyl ethyl ketone (MEK) as a cleaning solvent for painting equipment. During a FDER hazardous waste compliance inspection on October 22, 1990, a Dura-Bond representative stated that approximately one 55-gallon drum of the F005 waste was generated each month. The inspection revealed that at least fifty seven 55-gallon drums had accumulated inside and outside the main facility building. Several drums were open and some were leaking or overflowing. Soil staining was evident in the vicinity of the drums.

Ms. Rowena Sheffield
August 11, 1992
Page 2

The facility is presently owned by Dura-Bond Steel Corporation but leased by Balfour Beatty Construction, Inc. Current site operations involve structural steel operations, including sandblasting, welding, and minor painting.

The 13 units listed below have been designated for confirmatory sampling:

- Temporary Waste Storage Area (SWMU 3)
- Hazardous Materials/Waste Storage Area (SWMU 4)
- Wheelabrator Dust Collector (SWMU 5)
- Waste Oil Tank (SWMU 6)
- Ramp Area (SWMU 7)
- Sandblast Residue Fill Area (SWMU 8)
- Historical Outside Storage Area (SWMU 9)
- Covered Soil Pile (SWMU 13)
- Uncovered Soil Pile (SWMU 14)
- Sandblast Area (SWMU 16)
- Storm Water System (SWMU 18)
- Drainage Ditch (SWMU 19)
- Underground and Aboveground Storage Tanks (AOC B)

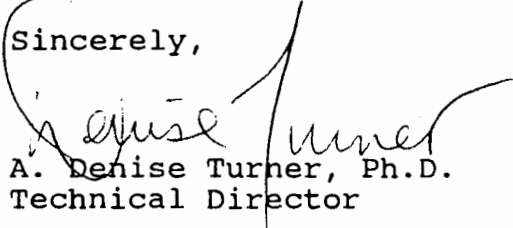
The Paint Cans Excavation Area (SWMU 12) has been designated as requiring a RFI. No further action is suggested for the remaining units, provided the facility remains in compliance with the applicable permits. Refer to the Executive Summary Table on page I-4 for a synopsis of the facility SWMUs and AOCs.

Davy Simonson, the EPA Work Assignment Manager (WAM), has requested that one original set of photographs from a Florida Department of Environmental Regulation (FDER) inspection in October 1990 (by Pam Fellabaum, FDER) be included with this deliverable (in addition to the VSI Photographic Log). The three additional copies of this RFA report contain black and white photocopies of these FDER photographs.

Ms. Rowena Sheffield
August 11, 1992
Page 3

Per EPA's request, this deliverable has been double-sided and reproduced on recycled paper. Please contact me or Phebe Davol, the Kearney Team WAM (who can be reached at 703/739-1626) if you have any questions concerning this report.

Sincerely,



A. Denise Turner, Ph.D.
Technical Director

Enclosure

cc: D. Simonson, EPA Region IV
W. Jordan
L. Poe
P. Davol
J. Ashworth
D. Scott

RCRA FACILITY ASSESSMENT
OF
DURA-BOND STEEL CORPORATION
JACKSONVILLE, FLORIDA

EPA I.D. NO. FLD982168072

SUBMITTED BY:

A.T. KEARNEY, INC.
1100 ABERNATHY ROAD
SUITE 900
ATLANTA, GEORGIA 30328

SUBMITTED TO:

MS. ROWENA SHEFFIELD
REGIONAL PROJECT OFFICER
U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION IV
345 COURTLAND STREET
ATLANTA, GEORGIA 30365

IN RESPONSE TO:

EPA CONTRACT NO. 68-W9-0040
WORK ASSIGNMENT NO. R04-21-18

AUGUST 1992

TABLE OF CONTENTS

| | | |
|------------|--|-------|
| I. | EXECUTIVE SUMMARY | I-1 |
| II. | INTRODUCTION | II-1 |
| A. | Preliminary Review and VSI | II-1 |
| B. | Facility Description | II-3 |
| C. | Process Description | II-9 |
| | 1. Wheelabrator® Sandblaster, Outside Sandblaster, and Dust | II-9 |
| | 2. Coating/Painting Area | II-11 |
| | 3. Area Adjacent to West Side of Main Facility Building | II-12 |
| D. | Waste Management Practices | II-12 |
| | 1. Chemical Wastes | II-12 |
| | 2. Waste Rags | II-14 |
| | 3. Wheelabrator® Dust Collector/Outside Sandblaster Residue | II-14 |
| | 4. Construction Debris | II-17 |
| | 5. Sanitary Wastewater | II-17 |
| | 6. Used Oil | II-17 |
| | 7. Scrap Metal | II-18 |
| | 8. General Facility Refuse | II-18 |
| | 9. Used Tires | II-18 |
| E. | Regulatory History | II-18 |
| | 1. Previous Site Investigations | II-18 |
| | 2. RCRA Activities | II-18 |
| | 3. Closure Activities | II-31 |
| | 4. Air and NPDES Permits | II-35 |
| | 5. Underground Storage Tanks | II-36 |
| F. | Environmental and Demographic Setting | II-36 |
| | 1. Meteorology | II-36 |
| | 2. Floodplain, Surface Waters, and Drainage | II-37 |
| | 3. Soils and Geology | II-39 |
| | 4. Ground Water | II-40 |
| | 5. Receptors | II-49 |
| III. | SWMU AND AOC DESCRIPTIONS | III-1 |
| IV. | SUMMARY | IV-1 |
| V. | SUGGESTED SAMPLING STRATEGY | V-1 |
| VI. | REFERENCES | VI-1 |
| APPENDIX A | VSI LOG BOOKS | VI-9 |
| APPENDIX B | PHOTOGRAPHIC LOG | VI-10 |
| APPENDIX C | SUPPLEMENTAL PHOTOGRAPHIC LOG FROM 1990 FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (FDER) INSPECTION | VI-11 |
| APPENDIX D | SWMU LOCATION MAP | VI-12 |

LIST OF FIGURES

| | | |
|--------------|---|-------|
| Figure II-1 | Topographic Map Showing Location of Dura-Bond Facility | II-4 |
| Figure II-2 | Topographic Map Showing Area Extending One Mile Beyond the Property Boundaries of the Property | II-5 |
| Figure II-3 | Site Location Map | II-6 |
| Figure II-4 | Map Depicting Area Ground-Water Wells | II-7 |
| Figure II-5 | Locations of Soil Sampling Areas for MEK | II-22 |
| Figure II-6 | Map Showing Location of Sampling for Four Underground and Aboveground Storage Tanks | II-27 |
| Figure II-7 | Locations of All Ground-Water Monitoring Wells | II-30 |
| Figure II-8 | Map Showing Location of Four Tanks Sampled and Their Respective Soil Boring Numbers | II-33 |
| Figure II-9 | 100-Year Floodplain Area | II-38 |
| Figure II-10 | Lithostratigraphic Units of the Hawthorne Group in North Florida | II-41 |
| Figure II-11 | Principal Aquifers in Florida | II-42 |
| Figure II-12 | Map of Duval County Showing the Potentiometric Surface of the Shallow Aquifer System and the Area of Flow in May 1969 | II-45 |
| Figure II-13 | Map of Duval County Showing the Sediments Overlaying the Ocala Limestone of the Floridan Aquifer | II-46 |
| Figure II-14 | Top of Floridan Aquifer in Northeast Florida | II-47 |
| Figure II-15 | Lithologic Sections from Two Test Borings | II-48 |
| Figure II-16 | Ground-Water Elevations (in feet above NGVD) and Direction of Ground-Water Movement, June 27, 1991 | II-50 |
| Figure II-17 | Ground-Water Elevations (in feet above NGVD) and Direction of Ground-Water Movement, July 8, 1991 | II-51 |
| Figure II-18 | Ground-Water Elevation Contours, January 16, 1992 | II-52 |
| Figure II-19 | Ground-Water Elevation Contours, April 16, 1992 | II-53 |

LIST OF TABLES

| | | |
|-------------|--|--------|
| Table I-1 | Executive Summary Table | I-4 |
| Table II-1 | Inventory of 55-Gallon Drums Stored at Dura-Bond Facility, January 22, 1991 | II-15 |
| Table II-2 | Inventory of 55-Gallon Drums Stored at Dura-Bond Facility, March 22, 1991 | II-16 |
| Table II-3 | Summary of Proposed Penalties | II-20 |
| Table II-4 | Soil Sampling Results for MEK | II-23 |
| Table II-5 | Analysis of Soil and Ground Water February 1991 | II-24 |
| Table II-6 | Analysis of Drummed Waste, June 27, 1991 . . | II-25 |
| Table II-7 | Analysis of Soil Samples, June 25, 1991 and July 8, 1991 | II-28 |
| Table II-8 | Analysis of Ground-Water Samples June 25, 1991 and July 8, 1991 | II-29 |
| Table II-9 | Results of Further Ground-Water Sampling . . | II-32 |
| Table II-10 | Field Log Book Including OVA Analysis of Soil Surrounding the Four Underground and Aboveground Storage Tanks | II-34 |
| Table II-11 | Stratigraphic Units and Aquifer Systems in Duval County | II-43 |
| Table III-1 | Sampling Results from Paint Cans Excavation Area (SWMU 12) | III-27 |
| Table IV-1 | List of all Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) | IV-2 |
| Table IV-2 | List of SWMUs and AOCs Requiring No Further Action | IV-3 |
| Table IV-3 | List of SWMUs and AOCs that are RCRA- Regulated Units | IV-4 |
| Table IV-4 | List of SWMUs and AOCs Requiring Confirmatory Sampling | IV-5 |
| Table IV-5 | List of SWMU Requiring an RFI | IV-6 |

The property was apparently developed in the late 1950s by Bushnell Steel Company and sold to Florida Steel in 1958. From 1958 to 1982, Florida Steel conducted steel coating operations at the facility using various paints containing lead and solvents. Fab Steel Company of Florida purchased the site in 1982 and sold it to Dura-Bond in 1987. Specific information regarding the handling, storage, and disposal of hazardous waste and materials at the site prior to Dura-Bond is unavailable (Reference 92).

The facility is presently operated by Balfour Beatty Construction, Inc. Current site operations involve structural steel operations, including sandblasting, welding, and minor painting. The current facility has no active RCRA-regulated units.

The Dura-Bond facility came under RCRA regulation in October 1990 following a FDER hazardous waste compliance inspection designed to ascertain the facility's compliance with 40 CFR Parts 260 to 268 (Reference 19). Dura-Bond was issued Warning Notice No. WN90-0216HW16NED by FDER dated December 5, 1990. In accordance with 40 CFR Part 264, FDER designated two hazardous waste storage units at the facility for closure.

Following negotiations with FDER, Dura-Bond entered into a Consent Order (OGC Case No. 90-0131) on March 5, 1991. A Hazardous Waste Facility Closure Permit Application was submitted to FDER on April 21, 1992 for the closure of the two SWMUs classified by FDER as land treatment units: the Area Adjacent to the West Side of Main Facility Building (SWMU 1) and the Area Immediately Adjacent to Dumpster (SWMU 2) (Reference 92).

A total of 22 SWMUs and 3 AOCs were identified at the Dura-Bond facility as a result of the PR and VSI. The following units require further documentation for accurate assessment of their potential for release:

The 13 units below have been designated for confirmatory sampling at the facility:

- Temporary Waste Storage Area (SWMU 3)
- Hazardous Materials/Waste Storage Area (SWMU 4)
- Wheelabrator® Dust Collector (SWMU 5)
- Waste Oil Tank (SWMU 6)
- Ramp Area (SWMU 7)
- Sandblast Residue Fill Area (SWMU 8)
- Historical Outside Storage Area (SWMU 9)
- Covered Soil Pile (SWMU 13)
- Uncovered Soil Pile (SWMU 14)
- Sandblast Area (SWMU 16)
- Storm Water System (SWMU 18)
- Drainage Ditch (SWMU 19)
- Underground and Aboveground Storage Tanks (AOC B)

I. EXECUTIVE SUMMARY

This RCRA Facility Assessment (RFA) is based on a Preliminary Review (PR) of U.S. EPA Region IV, the Florida Department of Environmental Regulation (FDER), the City of Jacksonville files, and a visual site inspection (VSI). The PR was conducted during May 1992 and the VSI was conducted on June 25, 1992. The purpose of the RFA is to identify Solid Waste Management Units (SWMUs) located at the facility and to evaluate their potential for release of hazardous constituents to the air, surface water, soil, and ground water. The potential for subsurface gas generation is also considered. In addition to SWMUs, Areas of Concern (AOCs) are also identified. AOCs may be potential sources of releases of hazardous constituents to the environment which do not necessarily involve wastes.

The 1984 Hazardous and Solid Waste Amendments (HSWA) to the Resource Conservation and Recovery Act (RCRA) authorized EPA to require corrective action for releases of hazardous wastes and/or hazardous constituents from SWMUs and AOCs at all operating, closed or closing RCRA facilities. The intention of this authority is to address previously unregulated releases to air, surface water, soil, and ground water. The first phase of the corrective action program, as established by EPA, is development of a RFA. The RFA includes a PR of all available relevant documents, a VSI and, if appropriate, a Sampling Visit (SV). Based on the results of these investigations, the SWMUs and AOCs at the facility are identified, and each is assessed as to its potential for release of hazardous constituents and its need for corrective action.

This RFA is based on a PR of files from EPA Region IV, FDER, the City of Jacksonville, and a VSI. The PR was performed during May 1992, and the VSI was conducted on June 25, 1992.

The Dura-Bond Steel Corporation (Dura-Bond) facility is located in Jacksonville, Florida, approximately five miles west of downtown Jacksonville. The site includes a former steel coating and painting facility, several hazardous waste drum storage areas, a paint shed, and a former waste oil underground storage tank (UST). Hazardous waste (F005) was generated in the coating/painting area from the use of methyl ethyl ketone (MEK, also known as 2-butanone) as a cleaning solvent for painting equipment. During a FDER hazardous waste compliance inspection on October 22, 1990, a Dura-Bond representative stated that approximately one 55-gallon drum of the F005 waste was generated each month. The inspection revealed that at least fifty seven 55-gallon drums had accumulated inside and outside the main facility building. Several drums were open and some were leaking or overflowing. Soil staining was evident in the vicinity of the drums (Reference 20).

A RCRA Facility Investigation (RFI) is suggested at the facility for the Paint Cans Excavation Area (SWMU 12). No further action is suggested for the remaining units, provided the facility remains in compliance with the applicable permits. Refer to the Executive Summary Table for a synopsis of the facility SWMUs and AOCs.

1. The facility is located at 12345 Main Street, City, State, ZIP.

2. The facility is a manufacturing plant for paint cans.

3. The facility has a total area of 100,000 square feet.

4. The facility has a total capacity of 1,000,000 gallons.

5. The facility has a total number of employees of 50.

6. The facility has a total number of storage tanks of 10.

7. The facility has a total number of excavators of 5.

8. The facility has a total number of trucks of 10.

9. The facility has a total number of trailers of 5.

10. The facility has a total number of containers of 10.

11. The facility has a total number of drums of 10.

12. The facility has a total number of bags of 10.

13. The facility has a total number of pallets of 10.

14. The facility has a total number of boxes of 10.

15. The facility has a total number of crates of 10.

16. The facility has a total number of kegs of 10.

17. The facility has a total number of barrels of 10.

18. The facility has a total number of casks of 10.

19. The facility has a total number of drums of 10.

20. The facility has a total number of bags of 10.

21. The facility has a total number of pallets of 10.

22. The facility has a total number of boxes of 10.

23. The facility has a total number of crates of 10.

24. The facility has a total number of kegs of 10.

25. The facility has a total number of barrels of 10.

26. The facility has a total number of casks of 10.

27. The facility has a total number of drums of 10.

28. The facility has a total number of bags of 10.

29. The facility has a total number of pallets of 10.

30. The facility has a total number of boxes of 10.

31. The facility has a total number of crates of 10.

32. The facility has a total number of kegs of 10.

33. The facility has a total number of barrels of 10.

34. The facility has a total number of casks of 10.

35. The facility has a total number of drums of 10.

36. The facility has a total number of bags of 10.

37. The facility has a total number of pallets of 10.

38. The facility has a total number of boxes of 10.

39. The facility has a total number of crates of 10.

40. The facility has a total number of kegs of 10.

41. The facility has a total number of barrels of 10.

42. The facility has a total number of casks of 10.

43. The facility has a total number of drums of 10.

44. The facility has a total number of bags of 10.

45. The facility has a total number of pallets of 10.

46. The facility has a total number of boxes of 10.

47. The facility has a total number of crates of 10.

48. The facility has a total number of kegs of 10.

49. The facility has a total number of barrels of 10.

50. The facility has a total number of casks of 10.

Table I-1
Executive Summary Table

TABLE I-1
DURA-BOND STEEL CORPORATION
EXECUTIVE SUMMARY

| SWMU/AOC | TYPE OF UNIT | YEARS IN OPERATION | WASTES MANAGED | POLLUTION MIGRATION PATHWAYS ⁵ | EVIDENCE OF RELEASES ¹ | ² EXPOSURE POTENTIAL | NEED FOR INTERIM MEASURES | RECOMMENDATIONS | | |
|--|--------------------------------|--------------------|---|---|-----------------------------------|---------------------------------|---------------------------|-----------------|-------------------|--------------------|
| | | | | | | | | RFI | NO FURTHER ACTION | FURTHER ASSESSMENT |
| 1 Area Adjacent to West Side of Main Facility Building | Land Treatment Unit | 1987 to 1992 | MEK/paint waste (F005) | SW,S,GW A,SG | Yes | H M | | | X ⁶ | |
| 2 Area Immediately Adjacent to Dumpster | Land Treatment Unit | 1987 to 1992 | MEK waste contaminated rags | SW,S,GW A,SG | Yes | H M | | | X ⁶ | |
| 3 Temporary Waste Storage Area | Drum Storage Area | 1987 to 1992 | MEK/paint waste (F005, F003) | SW,S,GW A SG | Yes | M L U | | | | X ² |
| 4 Hazardous Materials/ Waste Storage Area | Drum Storage Area | 1987 to 1992 | MEK/paint waste (F005) | SW,S,GW A,SG | Yes | H M | | | | X ² |
| 5 Wheelabrator® Dust Collector | Baghouse and Drum Storage Area | 1987 to 1992 | Millscale, shot/grit residue may contain Chromium | SW,S,GW A SG | Yes | H M L | | | | X ² |
| 6 Waste Oil Tank | Underground Storage Tank | Unknown to 1989 | Waste Oil | S,GW SW,SG A | No | H M L | | | | X ² |

¹ L designates a low, M designates a moderate, H designates a high, and U designates an Unknown exposure potential; see SWMU description for substantiation

² Confirmatory sampling is suggested

³ Releases from these units are monitored under RCRA Post-Closure, NPDES, UIC, and/or FDER Air Permits

⁴ See SWMU description for specific comments pertaining to this unit

⁵ GW designates Groundwater, SW designates Surface Water, S designates Soil, A designates Air, and SG designates Subsurface Gas

⁶ No Further Action contingent upon continued compliance with the Post-Closure Permit

Table I-1
Dura-Bond Steel Corporation
Executive Summary
(Continued)

| SWMU/AOC | TYPE OF UNIT | YEARS IN OPERATION | WASTES MANAGED | POLLUTION MIGRATION PATHWAYS ⁵ | EVIDENCE OF RELEASES ¹ | ² EXPOSURE POTENTIAL | NEED FOR INTERIM MEASURES | RECOMMENDATIONS | | |
|-----------------------------------|--------------------------------------|----------------------------------|---|---|-----------------------------------|---------------------------------|---------------------------|-----------------|-------------------|--------------------|
| | | | | | | | | RFI | NO FURTHER ACTION | FURTHER ASSESSMENT |
| 7 Ramp Area | Drum Storage Area and Unloading Area | Unknown to 1992 | Waste Oil | A, SW, S, GW, SG | Yes | L U | | | | X ² |
| 8 Sandblast Residue Fill Area | Disposal Area | 1987 to 1992 | Black Beauty TM in Sandblast Residue | SW, S, GW, A, SG | Yes | H L U | | | | X ² |
| 9 Historical Outside Storage Area | Drum Storage Area | 1987 to 1992 | Mixed waste MEK/paint (F005) | SW, S, GW, A, SG | Yes | M L U | | | | X ² |
| 10 Blue Shed | Drum Storage Area | 1987 to 1992 | No information available | A, SW, S, GW, SG | No | L U | | | X | |
| 11 Sheet Metal Building | Drum Storage Area | 1987 to 1992 | No information available | A, SW, S, GW, SG | No | L U | | | X | |
| 12 Paint Cans Excavation Area | Landfill | Unknown (possibly 1970s) to 1992 | Red lead-based primer paints | SW, S, GW, SG, A | Yes | H H L | | X | | |

¹ L designates a low, M designates a moderate, H designates a high, and U designates an Unknown exposure potential; see SWMU description for substantiation

² Confirmatory sampling is suggested

³ Releases from these units are monitored under RCRA Post-Closure, NPDES, UIC, and/or FDER Air Permits

⁴ See SWMU description for specific comments pertaining to this unit

⁵ GW designates Groundwater, SW designates Surface Water, S designates Soil, A designates Air, and SG designates Subsurface Gas

⁶ No Further Action contingent upon continued compliance with the Post-Closure Permit

Table I-1
Dura-Bond Steel Corporation
Executive Summary
(Continued)

| SWMU/AOC | TYPE OF UNIT | YEARS IN OPERATION | WASTES MANAGED | POLLUTION MIGRATION PATHWAYS ⁵ | EVIDENCE OF RELEASES ¹ | ² EXPOSURE POTENTIAL | NEED FOR INTERIM MEASURES | RECOMMENDATIONS | | |
|---------------------------------|-------------------|--------------------|---|---|-----------------------------------|---------------------------------|---------------------------|-----------------|-------------------|--------------------|
| | | | | | | | | RFI | NO FURTHER ACTION | FURTHER ASSESSMENT |
| 13 Covered Soil Pile | Waste Pile | 1992 | High VOC and metal concentrations | SW, A, S, GW, SG | Yes | H, M, L | | | | X ² |
| 14 Uncovered Soil Pile | Waste Pile | 1992 | High VOC and metal concentrations | SW, S, GW, A, SG | Yes | H, M, L | | | | X ² |
| 15 Shot Blast Drum Storage Area | Drum Storage Area | 1987 to 1992 | Millscale, shot/grit residue may contain Chromium | A, SW, S, GW, SG | No | L | | | X ³ | |
| 16 Sandblast Area | Process Area | 1987 to 1992 | Black Beauty™ in Sandblast Residue | SW, S, GW, A, SG | Yes | H, L | | | | X ² |
| 17 Construction Debris Pile | Waste Pile | 1992 | Facility Debris | A, SW, S, GW, SG | No | L | | | X ³ | |
| 18 Storm Water System | Underground Pipes | Unknown to 1992 | No information available | SW, A, S, GW, SG | Yes | H, L, U | | | | X ² |

¹ L designates a low, M designates a moderate, H designates a high, and U designates an Unknown exposure potential; see SWMU description for substantiation

² Confirmatory sampling is suggested

³ Releases from these units are monitored under RCRA Post-Closure, NPDES, UIC, and/or FDER Air Permits

⁴ See SWMU description for specific comments pertaining to this unit

⁵ GW designates Groundwater, SW designates Surface Water, S designates Soil, A designates Air, and SG designates Subsurface Gas

⁶ No Further Action contingent upon continued compliance with the Post-Closure Permit

Table I-1
Dura-Bond Steel Corporation
Executive Summary
(Continued)

| SWMU/AOC | TYPE OF UNIT | YEARS IN OPERATION | WASTES MANAGED | POLLUTION MIGRATION PATHWAYS ⁵ | EVIDENCE OF RELEASES ¹ | ² EXPOSURE POTENTIAL | NEED FOR INTERIM MEASURES | RECOMMENDATIONS | | |
|---|------------------------|--------------------|---|---|-----------------------------------|---------------------------------|---------------------------|-----------------|-------------------|--------------------|
| | | | | | | | | RFI | NO FURTHER ACTION | FURTHER ASSESSMENT |
| 19 Drainage Ditch | Unlined Drainage Ditch | 1987 to 1992 | Runoff from Wheelabrator Dust Collector (SWMU 5) and the Ramp Area (SWMU 7) | SW,S,GW A SG | Yes | H L U | | | | X ² |
| 20 Paint Can Excavation Drum Storage Area | Drum Storage Area | 1992 | High VOC and metal concentrations | A,SW,S GW,SG | No | L L | | | X | |
| 21 Construction Debris/Soil Pile | Waste Pile | 1987 to 1992 | Debris from area near Paint Cans Excavation Drum Storage Area (SWMU 12) | A,SW,S GW,SG | No | L L | | | X | |
| 22 Dumpster | Dumpster | 1987 to 1992 | MEK/paint waste contaminated rags (F005) | A,SW,S,GW SG | No | L U | | | X | |
| A Compressor Area | Process Area | Unknown to 1992 | Oil | A,SW,S,GW SG | Yes | L U | | | X | |

¹ L designates a low, M designates a moderate, H designates a high, and U designates an Unknown exposure potential; see SWMU description for substantiation

² Confirmatory sampling is suggested

³ Releases from these units are monitored under RCRA Post-Closure, NPDES, UIC, and/or FDER Air Permits

⁴ See SWMU description for specific comments pertaining to this unit

⁵ GW designates Groundwater, SW designates Surface Water, S designates Soil, A designates Air, and SG designates Subsurface Gas

⁶ No Further Action contingent upon continued compliance with the Post-Closure Permit

Table I-1
Dura-Bond Steel Corporation
Executive Summary
(Continued)

| SWMU/AOC | TYPE OF UNIT | YEARS IN OPERATION | WASTES MANAGED | POLLUTION MIGRATION PATHWAYS ⁵ | EVIDENCE OF RELEASES ¹ | ² EXPOSURE POTENTIAL | NEED FOR INTERIM MEASURES | RECOMMENDATIONS | | |
|---|-----------------------------------|--------------------|---|---|-----------------------------------|---------------------------------|---------------------------|-----------------|-------------------|--------------------|
| | | | | | | | | RFI | NO FURTHER ACTION | FURTHER ASSESSMENT |
| B Underground and Aboveground Storage Tanks | Underground and Aboveground Tanks | Unknown to 1989 | High OVA readings adjacent to tanks #2 and #4 | A, SW, S, GW, SG | Yes | L L - | | | | X ² |
| C Wheelabrator® Sump | Process Sump | Unknown to 1992 | Millscale, shot/grit residue may contain chromium | SW, S, GW A SG | No | H L U | | | X | |

¹ L designates a low, M designates a moderate, H designates a high, and U designates an Unknown exposure potential; see SWMU description for substantiation

² Confirmatory sampling is suggested

³ Releases from these units are monitored under RCRA Post-Closure, NPDES, UIC, and/or FDER Air Permits

⁴ See SWMU description for specific comments pertaining to this unit

⁵ GW designates Groundwater, SW designates Surface Water, S designates Soil, A designates Air, and SG designates Subsurface Gas

⁶ No Further Action contingent upon continued compliance with the Post-Closure Permit

II. INTRODUCTION

The 1984 Hazardous and Solid Waste Amendments to the Resource Conservation and Recovery Act authorized EPA to require corrective action for releases of hazardous wastes and/or hazardous constituents from SWMUs and AOCs at all operating, closed or closing RCRA facilities. The intention of this authority is to address previously unregulated releases to air, surface water, soil, and ground water.

The first phase of the corrective action program, as established by EPA, is development of a RFA. The RFA includes a PR of all available relevant documents, a VSI and, if appropriate, a SV. Based on the results of these investigations, the SWMUs and AOCs at the facility are identified, and each is assessed as to its potential for release of hazardous constituents and its need for corrective action.

This report summarizes the results of the file review conducted during May 1992 and the VSI conducted on June 25, 1992. A total of 22 SWMUs and 3 AOCs were identified at the site. Chapter II summarizes the file search and the VSI, and provides additional information concerning the history, process descriptions, waste management practices, environment, and demographic setting of the facility. The SWMUs and AOCs are assessed in Chapter III. Tables which are presented in Chapter IV list all units/areas and categorize them according to the further action required. Chapter V provides a suggested sampling strategy for those units requiring confirmatory sampling.

The references used in this report are listed in Chapter VI. Appendix A contains the VSI log which was maintained during the site visit, and Appendix B presents the Photographic Log documenting the physical condition of the SWMUs and AOCs at the time of the VSI. Appendix C presents the Supplemental Photographic Log documenting FDER's October 1990 inspection of the facility. Appendix D provides a SWMU location map.

A. Preliminary Review and VSI

This RFA report is based^a on a review of file material available at EPA Regional and State offices, and on observations made during the VSI. The file review was conducted during May 1992 and included a review of RCRA, CERCLA, Clean Air Act (CAA), and Clean Water Act (CWA) files available at EPA Region IV, Atlanta, Georgia and the Florida Department of Environmental Regulation (FDER). The VSI was conducted on June 25, 1992 by an EPA contractor team (Phebe Davol and David Kassel of A.T. Kearney) and a representative from EPA Region IV (Davy Simonson).

The VSI team arrived at the facility at 9:00 a.m. on June 25, 1992. They met with Mr. Wayne Norris (President of Dura-Bond) and Mr. John Elrod and Mr. Jim Oliveros (environmental consultants with Missimer & Associates, Inc. of Jacksonville). The group discussed the facility's history, processes, waste management practices, and remediation activities. Pamela Fellabaum of FDER joined the group at 10:00 a.m. The team began the site tour at 10:15 a.m. The weather was partly cloudy with a temperature of approximately 80°F and a light wind out of the south-southwest. Ms. Fellabaum showed the team members the historical waste storage and contamination areas based on her October 1990 inspection of the facility. The team viewed the northeastern portion of the facility, including the Ramp Area (SWMU 7), the Wheelabrator® Dust Collector (SWMU 5), the Sandblast Residue Fill Area (SWMU 8), and the Shot Blast Drum Storage Area (SWMU 15). The team also viewed the areas identified as hazardous waste storage areas in the October 1990 FDER inspection. These included the Area Adjacent to the West Side of Main Facility Building (SWMU 1), the Area Immediately Adjacent to Dumpster (SWMU 2), the Temporary Waste Storage Area (SWMU 3), the Historical Outside Storage Area (SWMU 9), the Hazardous Materials/Waste Storage Area (SWMU 4), and the Dumpster (SWMU 22).

The team then viewed the Sheet Metal Building (SWMU 11) and the former location of the Blue Shed (SWMU 10). The tour proceeded to the Paint Cans Excavation Area (SWMU 12) on the southern side of the property and the team also inspected the Covered Soil Pile (SWMU 13), the Uncovered Soil Pile (SWMU 14), and the Paint Can Excavation Drum Storage Area (SWMU 20). After inspecting the Construction Debris/Soil Pile (SWMU 21), the team continued the tour on the eastern side of the main facility building, viewing the Compressor Area (AOC A), the Drainage Ditch (SWMU 19), and the area of the former underground Waste Oil Tank (SWMU 6).

The team then walked the Highway Avenue drainage ditch along the southern outside edge of the facility, before re-entering the facility from the south gate near the excavation area. The group also walked north along the western fence line, viewing the Construction Debris Pile (SWMU 17) and the outside Sandblast Area (SWMU 16). The team observed the Wheelabrator® Sump (AOC C) and the former coating/painting area.

At approximately 1:45 p.m., the team left the facility for lunch, returning at 3:00 p.m. to resume discussions and the site tour. The team further discussed waste management practices, manufacturing processes, the recent excavation of paint cans and sampling efforts with Dura-Bond representatives. The team then investigated possible Storm Water System (SWMU 18) drainage routes on the property.

The tour of the facility was completed at approximately 5:30 p.m., and the team returned to the facility office to conduct the close-out meeting. The team left the facility at 7:00 p.m.

B. Facility Description

The Dura-Bond site occupies approximately 16.7 acres in Duval County, Florida. The facility is located approximately 5 miles west of downtown Jacksonville, Florida at latitude 30° 19' 20" north and longitude 81° 44' 41" west. The site lies approximately 1100 feet north of Interstate 10 (I-10) and is bordered on the east by Ellis Road. Beaver Street forms the northern property boundary and Highway Avenue forms the southern property boundary. There is a drainage ditch running along the southern site boundary next to Highway Avenue. Topographic maps showing the facility's location within the state are provided in Figures II-1 and II-2.

The site includes a main facility building used for coating and painting operations, several smaller shed-type buildings (including a warehouse and paint shed), two office buildings on the eastern side of the property, and an unpaved raw material and product storage area on the western side of the main facility building. The site is bounded by Chatham Scrap Metal yard to the west. A site location map is presented in Figure II-3. The surrounding area is zoned for heavy industrial (Reference 92).

According to Missimer and Associates, Inc. consultants, the land on which this site is constructed may have previously been used for rice farming. An artesian well was used for irrigation. This well, which is located in what is now the main facility building, is now covered by a large concrete slab (Reference 100). A map depicting area ground-water well locations is provided in Figure II-4.

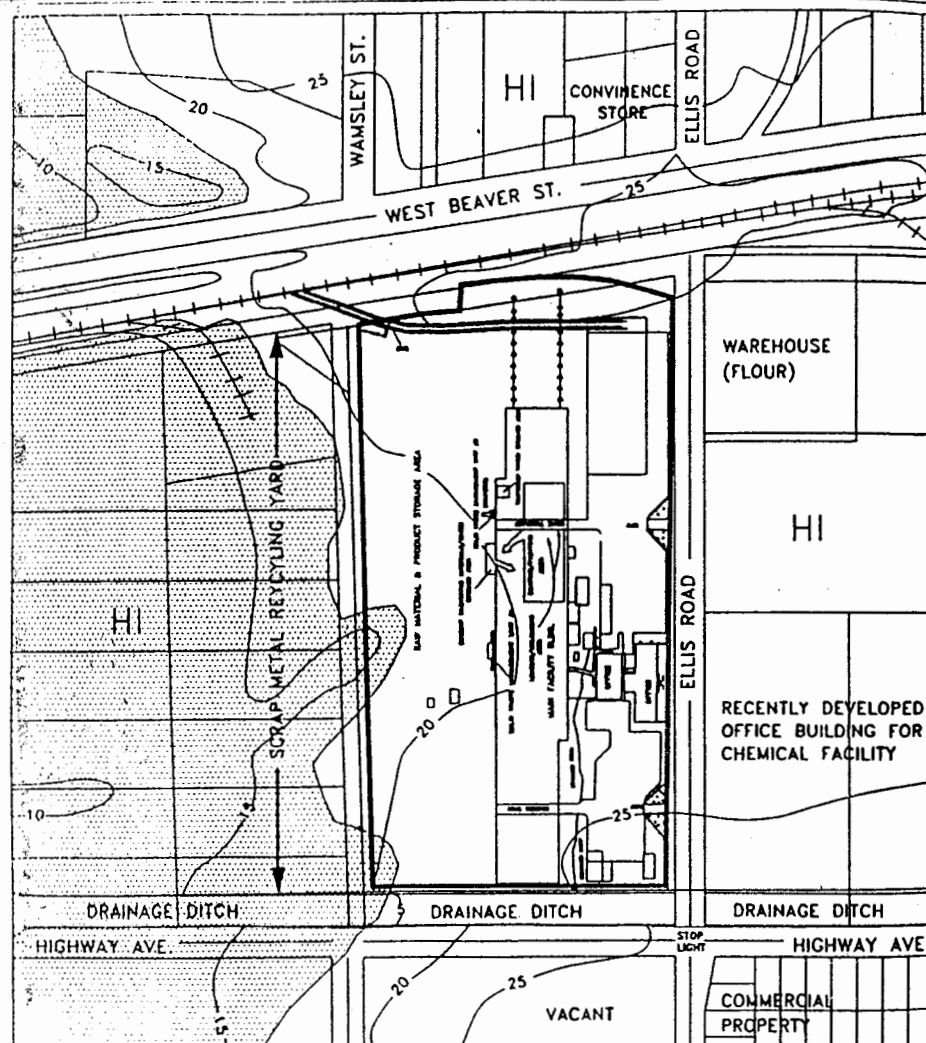
According to Dura-Bond's RCRA Closure Permit Application, the Dura-Bond site was originally developed in the late 1950s by Bushnell Steel Company. A deed dated January 13, 1955 indicates that the property was purchased by Bushnell Steel from Seaboard Air Line Railroad Company. Florida Steel Corporation purchased the property from Bushnell Steel (deed dated January 30, 1958) and conducted steel fabrication operations (which reportedly involved the use of lead-based and solvent-based paints) at the facility until it was purchased by Fab Steel Company of Florida on December 30, 1982. Fab Steel also conducted some coating operations, reportedly in the yard area and in the main facility building. Fab Steel apparently used the yard area to store large beams and other steel products (Reference 92).

Figure II-1

Topographic Map Showing Location of Dura-Bond Facility



(Reference 99)



LEGEND

ACCESS CONTROL - - - FENCE X-X-X-X-X

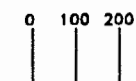
GATE X-X-X

100 - YEAR FLOOD PLAIN AREA
(FIRM MAP-CITY OF
JACKSONVILLE: COMMUNITY-
PANEL NUMBERS 120077 0131E
AND 120077 0132E)

SITE BOUNDARY —————

HI - HEAVY INDUSTRIAL

MODIFIED FROM PROPERTY OWNERSHIPS MAPS
CITY OF JACKSONVILLE, 1971 - 1972.



SCALE: 1"=200'



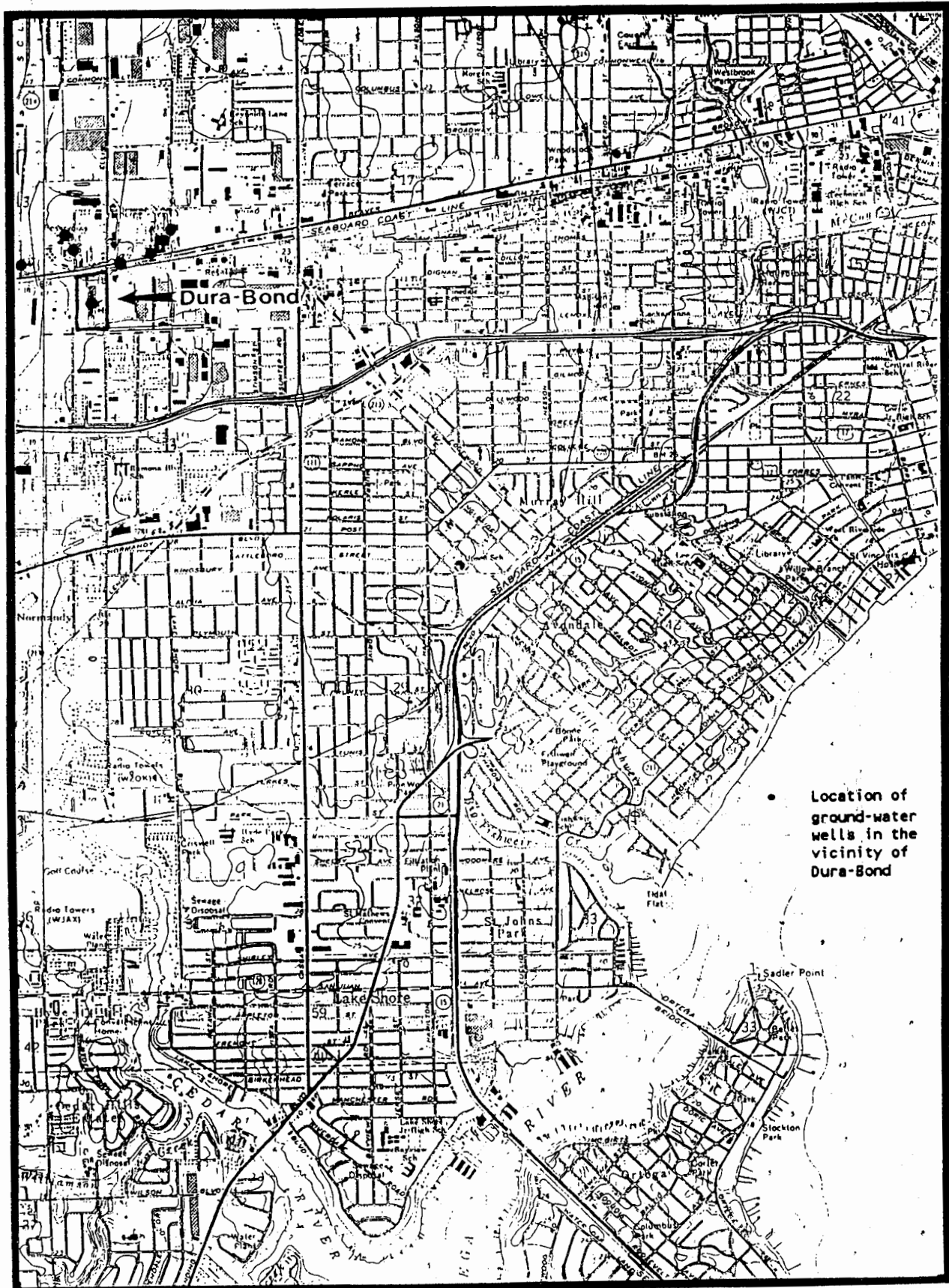
DURA-BOND STEEL CORPORATION
140 ELLIS ROAD
JACKSONVILLE, FLORIDA

Figure II-3

Site Location Map
(Reference 92)

Figure II-4

Map Depicting Area Ground-Water Wells



(Reference 99)

Blank Page

The facility's RCRA Closure Permit Application indicates Dura-Bond Protective Coating Company, Inc. took title to the property on February 20, 1987 under a Trustee's Deed from the bankruptcy trustee of the estate of Fab Steel (Reference 92). In January 1991, Dura-Bond Protective Coating Company, Inc. changed its name to Dura-Bond Steel Corporation and continued its steel coating operations at the facility (Reference 33). On March 1, 1992, Balfour Beatty Construction, Inc. began leasing the property. Balfour Beatty's site operations involve structural steel operations, including sandblasting, welding, and minor painting. According to Mr. Elrod of Missimer and Associates, Dura-Bond is no longer operating the site (Reference 100).

The facility is regulated under an air emissions permit and as a Small Quantity Generator under a RCRA Hazardous Waste Facility Closure Permit, but it is unclear whether current Balfour operations require air permits (References 91, 92). The Dura-Bond facility was first noted as a hazardous waste handling facility during a FDER site inspection in October 1990. According to FDER, the site was inspected in response to a complaint alleging improper hazardous waste handling and disposal (Reference 20).

Hazardous waste generated at the facility consists of spent methyl ethyl ketone (MEK) solvent. MEK was used by Dura-Bond employees to clean paint from equipment and their spray paint guns. According to the 1990 FDER inspection report, the workers allegedly sprayed waste MEK/waste paint from their guns onto the ground in an Area Immediately Adjacent to the West Side of the Main Facility Building (SWMU 1). Dura-Bond also managed other used MEK solvent and paint sludge in 55-gallon drums in various waste storage areas, including the Temporary Waste Storage Area (SWMU 3), the Hazardous Materials/Waste Storage Area (SWMU 4), and the Historical Outside Storage Area (SWMU 9) (Reference 92).

On April 8, 1992, employees of Balfour Beatty unearthed several dozen unlabeled paint containers and residual paint while preparing to build a new road on the south side of the facility. This area is referred to as the Paint Cans Excavation Area (SWMU 12). The containers appeared to contain red lead primer paint (References 89, 90). According to Mr. Oliveros, Florida Steel representatives recognized this material as the kind of paint their employees had used on Department of Transportation projects (Reference 100). According to Mr. Elrod, the Paint Cans Excavation Area is near the former location of Florida Steel's paint shed in an area that was prone to washouts. Therefore these paint cans may have been used as a constituent of backfill material to prevent washouts. He also stated that there was no apparent order to the cans and old railroad ties were intermixed with the cans at the excavation area (Reference 100).

On the morning following the discovery of this disposal area, according to Mr. Elrod, the leaking cans were containerized (Reference 100). He also stated that Florida Steel is paying for the cleanup of this area (Reference 100). Given the proximity of the excavated paint cans to the Highway Avenue drainage ditch, as well as the presence of a seepage face along the northern edge of this ditch, it is highly likely that contamination from the paint cans has entered this drainage ditch.

Sampling results of the paint sludge using a flame ionization detector indicated contamination at the following levels: 270,000 to 540,000 ppm lead; 500,000 to 680,000 ppb ethylbenzene; 2,900,000 to 3,300,000 ppb total xylenes; 1,800,000 ppb toluene; 760,000 ppb MEK; 24 ppm barium; and 53 ppm selenium. Sampling results for the standing water (runoff) indicate contamination at the following levels: 12 ppm lead; 350 ppm chromium; 8,000,000 ppb ethylbenzene; 145,837 ppm total petroleum hydrocarbons; and 22,000,000 ppb total xylenes. Sampling results for the surrounding soil showed contamination at the following levels: 2,000 ppm lead; 120 ppm barium; 72 ppm chromium; 22,000 ppb MEK; 61,000 ppb acetone; 390,000 ppb ethylbenzene; 49,000 ppb toluene; and 220,000 ppb total xylenes (Reference 99). Sampling results are shown in Table III-1 on page III-27.

C. Process Description

The manufacturing processes described below have occurred at the Dura-Bond facility since operations began in 1987. Balfour Beatty Construction, Inc. continues to operate some of these processes including the Wheelabrator® machine and outside sandblaster, and certain steel fabrication and welding operations. Balfour Beatty only performs minor painting operations; however, the company is constructing a large coating/painting facility building to the west of the main facility building in order to perform work for a large bridge contract (Reference 104).

1. Wheelabrator® Sandblaster, Outside Sandblaster, and Dust Collector

The coating and painting process began when materials which required finishing were blasted in a machine called a Wheelabrator®. This equipment removed millscale from the steel to provide a smooth surface for coating (Reference 20). In this unit steel shot and grit were fed into eight wheels that spun and delivered abrasives to the steel material. According to Mr. Norris, shot provided a more rounded surface to the steel materials, while grit provided a rougher surface (Reference 104). The Wheelabrator® sandblasting machine is located in the northeastern section of the main facility building.

According to Mr. Norris, steel materials which only required finishing and coating were unloaded from railroad cars entering the northern side of the facility or from trucks entering through the northern drive-through. These materials were brought into the main facility building through its open northern side, were sandblasted in the Wheelabrator®, and were passed along to the coating and painting area to the south. Materials that first required welding or fabrication were brought in through the southern drive-through or transported by overhead crane from the railroad tracks to the southern end of the main facility building. Here, the steel was formed into smaller angles in an area along the western wall or welded at welding units along the eastern wall. These materials were then transported to the northern end of the building where they were sandblasted before being moved south to the coating area. Tanks and other items that were too large to be treated in the Wheelabrator® were sandblasted outside the main facility building. Mr. Norris stated that Dura-Bond never blasted steel materials that were already coated (Reference 100).

Residual dust from the Wheelabrator® machine was mechanically removed from the machine through a baghouse which is part of the Wheelabrator® Dust Collector (SWMU 5). This unit is located adjacent to the outside eastern wall of the building. According to Mr. Norris, the dust from the dust collector emission control system contained worn shot, grit, and millscale, which was collected in 55-gallon drums (References 20, 104). This residual material was a dark gray colored dust that also dispersed to the concrete pad beneath the baghouse and the surrounding ground. The steel shot/grit and millscale residue was sold to Chatham Steel, the facility which conducts operations immediately west of the Dura-Bond property, to be recycled or was shipped offsite for disposal at a sanitary landfill (References 25, 27, 100, 104).

According to Mr. Norris, the outside sandblaster used an air blast system and a material referred to as Black Beauty™, which is a by-product of the combustion of coal that is processed into an abrasive product (Reference 101). It typically is composed of fused ferro-alumino-silicate which is formed when molten slag is quenched in cold water. The processed product is a coarse non-crystalline black glass. Black Beauty™ contains several hazardous constituents including antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium, and zinc; therefore there is concern that Black Beauty™ could enter environmental media through runoff to surface water or leaching to ground water. If the confirmatory sampling reveals that hazardous constituents are present in the surrounding media, then further investigation of the unit is warranted.

The residue from the operation of the outside sandblaster was composed of rust millscale and sand (Reference 104). Some

sandblast residue was used as fill in the marshy area between the main facility building and the northern warehouse known as the Sandblast Residue Fill Area (SWMU 8). Residue that fell to the ground during blasting operations was also graded in the surrounding area on the western side of the property or gathered in a pile northwest of the outside sandblaster in the Sandblast Area (SWMU 16) (Reference 100).

2. Coating/Painting Area

According to FDER, coating and painting operations took place within the main facility building, which is a long narrow building with a dirt floor. However, Dura-Bond states that the coating process took place only on either side of the northern driveway. Primer and/or finish coatings of paint were applied to tanks and pilings but only a primer coat was applied to structural steel materials. This primer paint contained inorganic zinc. Tanks were coated with a primer and polyurethane. Pilings were coated with a coal tar epoxy which was the most widely used coating material at the facility (References 57 and 62).

Steel fabricating operations occurred in the remainder of the building and occupied approximately 75% of the space. Dura-Bond has indicated that only 20% to 30% of the total area in the building had a dirt floor (i.e., reportedly only the extreme northern and southern sides of the northern driveway had dirt floors) (Reference 27). Hazardous waste was generated in this area from the use of pure MEK as a solvent. Mr. Waters told FDER officials during an October 1990 inspection that the facility generated approximately one 55-gallon drum of the F005 MEK waste each month. These waste drums and other containers were stored near the coating/painting area.

At the time of the inspection FDER inspectors reported that employees cleaned their paint guns using MEK and sprayed the F005 mixed MEK/paint waste directly onto the ground. The report states: "A tour of the coating/painting area revealed that employees routinely cleaned their paint guns and sprayed the F005 waste MEK/waste paint on the ground. There were several locations where this occurred. Both the soil and the vegetation in these areas were stained with the F005 waste MEK/waste paint mixture" (Reference 20).

The FDER October 1990 inspection report also stated that some of the drums that were observed in the Blue Shed (SWMU-10) appeared to have contained fiberglass resin from a former manufacturing process (Reference 20). FRP Supply, a distributor of Koppers brand 6631-T resin, stated that Dura-Bond purchased 189 drums of this material during the time that FRP had 2 batches of the resin in stock (Reference 9).

3. Area Adjacent to West Side of Main Facility Building
(SWMU 1)

This area was identified as a SWMU in a FDER warning notice, following a Hazardous Waste Facility Inspection in October 1990. In Dura-Bond's Closure Permit Application, a unit which runs parallel to the western side of the main facility building (near a small storage building) was designated as a hazardous materials/waste storage area. Apparently, this area was used as a drum storage facility for MEK product and waste. FDER noted that there were several drums accumulating in this area at the time of the inspection and that many of the drums were open. Some of the drums were leaking or overflowing, and the surrounding soil was stained (Reference 20).

The area is composed of an abutment of the main facility building (measuring 15 feet by 40 feet) with a concrete floor. The walls consist of corrugated sheet metal. According to John Elrod, this area housed drums of MEK product after it was unloaded onto the pad from delivery trucks. A distillation unit, which distilled five to six gallons of MEK per hour for reuse from the mixed paint and solvent solution, was also once located in this area (Reference 100). Paint solids were allowed to settle out of spent MEK prior to distillation (Reference 92). Paint sludge from this process was accumulated in drums along the south side of the area.

D. Waste Management Practices

The primary units in Dura-Bond's waste management system were the temporary waste storage area and a storage area for both hazardous raw materials and hazardous waste. Details concerning the production and disposal of wastes which were produced at the Dura-Bond facility are provided below:

1. Chemical Wastes

Dura-Bond produced MEK wastes at the facility from 1987 to 1992. MEK was used as a cleaning solvent by facility workers to clean paint from their paint guns and equipment (Reference 20). Mr. Elrod stated that the frequency of cleaning out the paint guns in this manner depended on the type of paint being used in the coating and painting process. If workers were coating with a paint that only MEK could clean, then cleaning activities might occur on a daily basis (Reference 100). This waste is classified as F005 according to 40 CFR Part 261.31.

During an October 1990 site inspection, Mr. Waters, a production manager, told FDER officials that the facility generated approximately one 55-gallon drum of F005 mixed MEK/paint waste a month (Reference 20). According to Dura-Bond's Closure Permit Application, the waste was containerized in 55-gallon drums and

transferred to the Hazardous Materials/Waste Storage Area (SWMU 4). Mr. Norris stated that this spent solvent was reusable after distillation. Solids were allowed to settle out and the MEK was distilled using a drum master distilling machine (References 92, 100). The distilled solvent was reused as thinner to generate new paint. Therefore the only waste being generated, according to Mr. Elrod, was the paint sludge that gradually accumulated. During the VSI, he estimated that three to five 55-gallon drums of waste were generated per month (Reference 100).

Dura-Bond had its hazardous waste collected and transported for disposal by Chemical Conservation Corporation (Chem Con) according to Mr. Norris (Reference 100). Chem Con disposed of the waste at its facility in Valdosta, Georgia (Reference 23, 34). According to Dura-Bond, xylene was declared as F003 hazardous waste when it was used around 1988 (Reference 100). From January 1989 to February 1990, Dura-Bond classified the waste being transported for disposal by Chem Con as PR04114 waste mixed solvent, a flammable liquid, and PR04132 waste oil on its Uniform Hazardous Waste Manifest sheets (Reference 34).

The April 22, 1991 Uniform Hazardous Waste Manifests indicate that Chem Con shipped 26 drums of waste paint from the Dura-Bond facility. Nineteen of these drums contained a mixture of methanol and mineral spirits and the other seven contained a mixture of xylene and methanol. All of the drums were classified as D001 flammable liquid on the Uniform Hazardous Waste Manifest sheets (Reference 50). There is no information available regarding how these wastes were generated or stored. Shipments of 17 drums on April 24, 1992 and 13 drums on May 7, 1992 consisted of 55-gallon drums of mixed paint/solvent waste as well as some non-regulated waste dirt, oil, and water (Reference 94).

In 1991, it was estimated that 17,026 pounds of volatile organic constituents (VOCs) were used in the coating/painting process at the Dura-Bond facility (Reference 57). In late January 1992, Dura-Bond estimated that its VOC emissions for a three month period equalled 5.24 tons. The company predicted that if this figure was extrapolated for a 12 month period, it could anticipate an annual VOC emission output of approximately 21 tons (Reference 84).

During an October 1990 inspection, FDER representatives noted that many of the drums in the storage areas were open, leaking or overflowing (Reference 20). Dura-Bond submitted an initial inventory of drums being stored onsite to FDER on January 18, 1991. All but 15 drums were characterized as product by Dura-Bond. Dura-Bond further stated that, in the future, any drums which stored hazardous waste would be closed except when waste was being added or removed and that hazardous waste drums would

be inspected on a weekly basis. The facility also stated that any leaking drums would be recontainerized (Reference 30).

Dura-Bond submitted a revised inventory list on January 22, 1991 showing new and consolidated drums from the one- and five-gallon containers stored on the west side of the facility (Reference 31). This inventory is provided in Table II-1. Another updated inventory of all 55-gallon drums still located onsite was provided to FDER on March 22, 1991. A copy of this inventory is provided in Table II-2. This inventory indicates that some drums contained solvent and paint resin which were listed as hazardous waste. Several drums contained dust from the Wheelabrator® machine which was sold to Chatham Steel in early February 1991. Many other drums contained shot and grit. There were also some drums which contained hardened paint and other drums contained materials listed as product, including coating chemicals, oil, blue paste, and Wheelabrator® dust. One drum was also listed as containing material "From Oil Release" which was sold to Bob Matthews Construction in January 1991. Another drum was listed as containing "Oil Soaked Sorbent." No other information is available regarding any release of oil at the facility which may have produced the contents of these drums (References 48, 49).

2. Waste Rags

Mr. Waters told FDER inspectors during their October 1990 site visit that employees disposed of F005 waste MEK/paint rags (used in the cleaning of the spray guns during the coating and painting process) in the dumpster (Reference 20).

In January 1991, Dura-Bond issued a request for the supply and processing of approximately 1000 waste rags contaminated with MEK, solvents, and paint to Industrial Services in Plant City, Florida. The service was requested on a monthly basis for a period of six months (Reference 29).

3. Wheelabrator® Dust Collector/Outside Sandblaster Residue

Residual dust from the Wheelabrator® machine was mechanically removed from the machine through a baghouse which was part of the Wheelabrator® Dust Collector (SWMU 5). This unit is located adjacent to the outside eastern wall of the building. The dust from the dust collector emission control system contained worn shot, grit, and millscale, according to Mr. Norris, and was collected in 55-gallon drums (References 20, 104). Dura-Bond stated that all of the drums were "steel shot or steel grit" (Reference 36). The residual material was a dark gray colored dust that also dispersed to the concrete pad beneath the baghouse and the surrounding ground. The steel shot/grit and millscale residue was sold to Chatham Steel, the facility which conducts operations immediately west of Dura-Bond property, to be

Table II-1

**Inventory of 55-Gallon Drums
Stored at Dura-Bond Facility
January 22, 1991**

Dura-Bond

Steel Corp.

STRUCTURAL STEEL
MISCELLANEOUS STEEL
REINFORCING STEEL
METAL DECK
STEEL JOIST
WELDED WIRE FABRIC

BOX 60937, 140 S. ELLIS • JACKSONVILLE, FLORIDA 32236-0937

Phone (904) 781-0898

Table II-1

Inventory of 55-Gallon Drums
Stored at Dura-Bond Facility January 22, 1991
(Reference 31)

| | |
|----|---|
| 10 | AEON 800 PETROLEUM BASED LUBRICANT AND COOLANT |
| 11 | SAME AS #10 |
| 12 | SAME AS #10 |
| 13 | SAME AS #10 |
| 14 | SAME AS #10 |
| 15 | SAME AS #10 |
| 16 | SAME AS #10 |
| 17 | SAME AS #10 |
| 18 | SAME AS #10 |
| 19 | SAME AS #10 |
| 20 | OIL SATURATED SAND BARRELL |
| 21 | SAME AS #20 |
| 22 | SAME AS #20 |
| 23 | SAME AS #20 |
| 24 | SAME AS #20 |
| 25 | SAME AS #20 |
| 26 | EMPTY PLASTIC BARRELL. (RETURN FOR CREDIT) |
| 27 | CLORINE BARRELL IN PUMP HOUSE FOR USE H ₂ O. |
| 28 | HYDRAULIC OIL |
| 29 | SAME AS #28 |
| 30 | SOILD PAINT |
| 31 | RED OXIDE PRIMER |

Dura-Bond**Steel Corp.**

STRUCTURAL STEEL
MISCELLANEOUS STEEL
REINFORCING STEEL
METAL DECK
STEEL JOIST
WELDED WIRE FABRIC

P.O. BOX 60937, 140 S. ELLIS • JACKSONVILLE, FLORIDA 32236-0937

Phone (904) 781-0898

Fax (904) 781-2004

JANUARY 15, 1991

DANNY WATERS

EPA COORDINATOR.

INVENTORY OF ALL 55 GALLON DRUMS.

| | | |
|----|----------------------------|--|
| 32 | RED OXIDE PRIMER | |
| 33 | AMOCO CLEAR LUBE #90 OIL | |
| 34 | HYDRAULIC OIL | |
| 35 | AUTOMATIC TRANSMISSION OIL | |
| 36 | HARD PAINT | |
| 37 | SOLVENT | COMBINE WITH DRUM # 234. 1/15/91. DANNY WATERS |
| 38 | SOLVENT | |
| 39 | SOLVENT | COMBINE WITH DRUM # 237. 1/15/91. DANNY WATERS |
| 40 | SOLVENT | COMBINE WITH DRUM # 236. 1/15/91. DANNY WATERS |
| 41 | WATER SOLVENT | |
| 42 | WATER SOLVENT | |
| 43 | SOLVENT | |
| 44 | WATER SOLVENT | COMBINE WITH DRUM # 235. 1/15/91. DANNY WATERS |
| 45 | WATER | |
| 46 | SAND AND DIRT SOLVENT | |
| 47 | SAND AND DIRT SOLVENT | |
| 48 | SOLVENT | COMBINE WITH DRUM # 237. 1/15/91. DANNY WATERS |
| 49 | CORE COAT URETHANE | |
| 50 | HARD PAINT | |
| 51 | SOLVENT | COMBINE WITH DRUM # 234. 1/15/91. DANNY WATERS |
| 52 | CORE COAT URETHANE | |
| 53 | OIL | |
| 54 | SOLVENT | COMBINE WITH DRUM # 236. 1/15/91. DANNY WATERS |
| 55 | SOLVENT | COMBINE WITH DRUM # 235. 1/15/91. DANNY WATERS |
| 56 | SOLVENT | |
| 57 | OIL | |
| 58 | HYDRAULIC OIL | |
| 59 | SOLID PAINT | |
| 60 | COAL TAR THINNER | |
| 61 | MOTOR OIL | |
| 62 | ABSORBENT MATERIAL | |
| 63 | LUBE GREASE | |

Dura-Bond

Steel Corp.

Table II-1 (continued)

STRUCTURAL STEEL
MISCELLANEOUS STEEL
REINFORCING STEEL
METAL DECK
STEEL JOIST
WELDED WIRE FABRIC

BOX 60937, 140 S. ELLIS • JACKSONVILLE, FLORIDA 32236-0937

Phone (904) 781-0898

Fax (904) 781-2004

JANURAY 15. 1991

DANNY WATERS.

INVENTORY OF ALL 55 GALLON DRUMS.

EPA COORDINATOR.

| | |
|----|--|
| 64 | SOLVENT |
| 65 | SOLVENT COMBINE WITH DRUM # 235. 1/15/91. DANNY WATERS |
| 66 | CORE COAT URATHANE |
| 67 | SAFE AS #66 |
| 68 | SOLVENT |
| 69 | HARD PAINT |
| 70 | FORM OIL RELEASE |
| 71 | OIL SOAKED ABSORBENT |
| 72 | HARD PAINT |
| 73 | HYDRAULIC OIL |
| 74 | PAINT RESIN |
| 75 | SOLVENT |
| 76 | SOLVENT |
| 77 | SOLVENT COMBINE WITH DRUM # 238. 1/15/91. DANNY WATERS |
| 78 | IRC CHEM FRUTRON |
| 79 | CORE COAT URATHANE |
| 80 | SAME AS #79 |
| 81 | DIRT AND SAND SOLVENT |
| 82 | SAME AS #81 |
| 83 | SOLVENT |
| 84 | PAINT COLOR SANDSTONE |
| 85 | CORE COAT URATHANE |
| 86 | SOLVENT |

Dura-Bond

Table II-1 (continued)

Steel Corp.

STRUCTURAL STEEL
MISCELLANEOUS STEEL
REINFORCING STEEL
METAL DECK
STEEL JOIST
WELDED WIRE FABRIC

P.O. BOX 60937, 140 S. ELLIS • JACKSONVILLE, FLORIDA 32236-0037

Phone (904) 781-0898

Fax (904) 781-2004

JANUARY 15, 1991

INVENTORY OF ALL 55 GALLON DRUMS.

DANNY WATERS.
EPA COORDINATOR.

| | | |
|-----|--------------------------------|--|
| 87 | HYDRAULIC OIL | |
| 88 | SOLVENT | COMBINE WITH DRUM # 235. 1/15/91. DANNY WATERS |
| 89 | SOLID PAINT | COMBINE WITH DRUM# 234. 1/15/91. DANNY WATERS |
| 90 | GREY PRIMER | |
| 91 | DIRT AND SAND SOLVENT | |
| 92 | CORE COAT URETHANE | |
| 93 | SAME AS #92 | |
| 94 | SAME AS #92 | |
| 95 | solvent | |
| 96 | KOPPERS JET SET PRIMER | |
| 97 | DIRT AND SAND SOLVENT | |
| 98 | EMPTY DRUM | |
| 99 | CORE COAT URETHANE | |
| 100 | KOPPERS JET SET PRIMER | |
| 101 | CORE COAT URETHANE | |
| 102 | SAME AS # 101 | |
| 103 | HYDRAULIC OIL | |
| 104 | SAME AS # 103 | |
| 105 | OIL | |
| 106 | OIL | |
| 107 | OIL | |
| 108 | NEW MEK NOT OPENED | |
| 109 | SAME AS # 108 | |
| 110 | SAME AS # 108 | |
| 111 | SAME AS # 108 | |
| 112 | SOLVENT | |
| 113 | EMPTY DRUM | |
| 114 | KOPPERS COAL TAR | |
| 115 | SAME AS # 114 | |
| 116 | SAME AS #114 | |
| 117 | SAME AS # 114 | |
| 118 | HYPOCHLORATES H ₂ O | WATER TREATMENT PLANT |

Dura-Bond**Steel Corp.**

STRUCTURAL STEEL
 MISCELLANEOUS STEEL
 REINFORCING STEEL
 METAL DECK
 STEEL JOIST
 WELDED WIRE FABRIC

J. BOX 60937, 140 S. ELLIS • JACKSONVILLE, FLORIDA 32236-0937

Phone (904) 781-0898

Fax (904) 781-2004

JANUARY 15, 1991

DANNY WATERS

EPA COCRINATOR.

INVENTORY OF ALL 55 GALLON DRUMS.

| | |
|-----|------------------------|
| 119 | WATER |
| 120 | SCRAP DRUM |
| 121 | SAME AS #120 |
| 122 | DUST FROM WHEELABRATOR |
| 123 | SAME AS # 122 |
| 124 | SAME AS #122 |
| 125 | SAME AS #122 |
| 126 | SAME AS #122 |
| 127 | SAME AS #122 |
| 128 | SAME AS #122 |
| 129 | SAME AS #122 |
| 130 | SAME AS # 122 |
| 131 | SAME AS #122 |
| 132 | SAME AS #122 |
| 133 | SAME AS #122 |
| 134 | SAME AS #122 |
| 135 | SAME AS #122 |
| 136 | SAME AS #122 |
| 137 | SAME AS #122 |
| 138 | SAME AS #122 |
| 139 | SAME AS #122 |
| 140 | SAME AS #122 |
| 141 | HYDRAULIC OIL |
| 142 | CRIT AND SHOT |
| 143 | CRIT AND SHOT |
| 144 | SAME AS #122 |
| 145 | SAME AS #122 |
| 146 | KOPPERS COAL TAR |
| 147 | SAME AS #146 |
| 148 | SAME AS #146 |
| 149 | SAME AS #146 |
| 150 | SAME AS #146 |

Dura-Bond**Steel Corp.**

STRUCTURAL STEEL
 MISCELLANEOUS STEEL
 REINFORCING STEEL
 METAL DECK
 STEEL JOIST
 WELDED WIRE FABRIC

P.O. BOX 60937, 140 S. ELLIS • JACKSONVILLE, FLORIDA 32236-0937

Phone (904) 781-0898

Fax (904) 781-2004

JANUARY 15, 1991

DANNY WATERS

EPA COORDINATOR.

INVENTORY OF ALL 55 GALLON DRUMS.

| | |
|-----|-------------------------------|
| 151 | POLYESTER GEL COAT BLUE |
| 152 | KOPPERS COAL TAR |
| 153 | SAME AS #152 |
| 154 | SAME AS #152 |
| 155 | SAME AS #152 |
| 156 | SAME AS #151 |
| 157 | HYDRAULIC OIL |
| 158 | DIRT AND SAND OIL |
| 159 | DUST FROM WHEELABRATOR |
| 160 | SAME AS #159 |
| 161 | SAME AS #159 |
| 162 | SAME AS #159 |
| 163 | SHOT AND CRIT |
| 164 | SHOT AND CRIT |
| 165 | DUST FROM WHEELABRATOR |
| 166 | SAME AS #165 |
| 167 | SAME AS #165 |
| 168 | SAME AS #165 |
| 169 | SAME AS #165 |
| 170 | SAME AS #165 |
| 171 | SAME AS #165 |
| 172 | SAME AS #165 |
| 173 | SAME AS #165 |
| 174 | SAME AS #165 |
| 175 | SAME AS #165 |
| 176 | SAME AS #165 |
| 177 | THOMPSONS WATER SEAL |
| 178 | DIESEL FUEL (PILING PRODUCTS) |
| 179 | MOTOR OIL (PILING PRODUCTS) |
| 180 | MOTOR OIL (PILING PRODUCTS) |
| 181 | MOTOR OIL (PILING PRODUCTS) |
| 182 | MOTOR OIL 30 WT |

Dura-Bond

Steel Corp.

STRUCTURAL STEEL
MISCELLANEOUS STEEL
REINFORCING STEEL
METAL DECK
STEEL JOIST
WELDED WIRE FABRIC

P.O. BOX 60937, 140 S. ELLIS • JACKSONVILLE, FLORIDA 32236-0937

Phone (904) 781-0898

Fax (904) 701-2004

JANUARY 15, 1991

DANNY WATERS

EPA COORDINATOR.

INVENTORY OF ALL 55 GALLON DRUMS.

| | |
|-----|---------------|
| 183 | SOLOABLE OIL |
| 184 | MOTOR OIL |
| 185 | HYDRAULIC OIL |

Dura-Bond

Table II-1 (continued)

Steel Corp.

STRUCTURAL STEEL
MISCELLANEOUS STEEL
REINFORCING STEEL
METAL DECK
STEEL JOIST
WELDED WIRE FABRIC

P.O. BOX 60937, 140 S. ELLIS • JACKSONVILLE, FLORIDA 32236-0937

Phone (904) 781-0898

Fax (904) 781-2004

DATE JAN 15 1991.
DANNY WATERS,
EPA COORDINATOR.

INVENTORY OF ALL 55 GALLON DRUMS.

| | |
|-----|----------------------|
| 186 | WHEELABRAITOR DUST |
| 187 | SAME AS #186 |
| 188 | SAME AS #186 |
| 189 | SAME AS #186 |
| 190 | SAME AS #186 |
| 191 | SAME AS #186 |
| 192 | SAME AS #186 |
| 193 | SAME AS #186 |
| 194 | SAME AS # 186 |
| 195 | SAME AS # 186 |
| 196 | SAME AS # 186 |
| 197 | SAME AS #186 |
| 198 | SAME AS #186 |
| 199 | SAME AS #186 |
| 200 | G-25 SHOT |
| 201 | SAME AS #200 |
| 202 | SAME AS #200 |
| 203 | SAME AS #200 |
| 204 | SAME AS #200 |
| 205 | SAME AS # 200 |
| 206 | SAME AS # 200 |
| 207 | SAME AS # 200 |
| 208 | DIESEL OIL FOR TRUCK |
| 209 | SOLUBLE OIL |
| 210 | PASTE BLUE |
| 211 | PASTE BLUE |
| 212 | PASTE BLUE |
| 213 | PASTE BLUE |
| 214 | PASTE BLUE |
| 215 | PASTE BLUE |
| 216 | PASTE BLUE |
| 217 | PASTE BLUE |

Dura-Bond**Steel Corp.**

STRUCTURAL STEEL
MISCELLANEOUS STEEL
REINFORCING STEEL
METAL DECK
STEEL JOIST
WELDED WIRE FABRIC

P.O. BOX 60937, 140 S. ELLIS • JACKSONVILLE, FLORIDA 32236-0937

Phone (904) 781-0898

Fax (904) 781-2004

DATE JAN 15 1991

DANNY WATERS

INVENTORY OF ALL 55 GALLON DRUMS

EPA COORDINATOR.

| | |
|-----|---|
| 218 | MOTOR OIL #40 |
| 219 | MIXED PAINT |
| 220 | SAME AS #219 |
| 221 | SAME AS # 219 |
| 222 | SAME AS # 219 |
| 223 | PAINT CAN'S PUT IN 55GALLON DRUM 1-CALLON CAN'S. 1/15/91 DANNY WATERS |
| 224 | SAME AS #223 |
| 225 | SAME AS #223 |
| 226 | SAME AS #223 |
| 227 | SCRAP STEEL |
| 228 | SAME AS #227 |
| 229 | SAME AS # 227 |
| 230 | SAME AS # 227 |
| 231 | RAC DRUM |
| 232 | SAME AS # 231 |
| 233 | SAME AS # 231 |
| 234 | MIXED PAINT. COMBINE DRUM'S #89-37-51. DANNY WATERS 1/15/91 |
| 235 | MIXED PAINT. COMBINE DRUM'S #65-55-44-88. DANNY WATERS 1/15/91 |
| 236 | MIXED PAINT. COMBINE DRUM'S #40-54. DANNY WATERS 1/15/91 |
| 237 | MIXED PAINT. COMBINE DRUM'S #48-39. DANNY WATERS 1/15/91 |
| 238 | MIXED PAINT. COMBINE DRUM'S #77. DANNY WATERS 1/15/91 |
| 239 | EMPTY DRUM |

Table II-2

**Inventory of 55-Gallon Drums
Stored at Dura-Bond Facility
March 22, 1991**

D.K.

Dura-Bond

Steel Corp.

STRUCTURAL STEEL
MISCELLANEOUS STEEL
REINFORCING STEEL
METAL DECK
STEEL JOIST
WELDED WIRE FABRIC

Box 50937, 140 S. ELLIS • JACKSONVILLE, FLORIDA 32236-0037

Phone (904) 781-0890

Table II-2

DATE 3/20/91

Inventory of 55-Gallon Drums Stored at
Dura-Bond Facility March 22, 1991
(Reference 48)

DANNY WATERS.

EPA COORDINATOR.

| | | |
|---------|----|---|
| PRODUCT | 10 | AEON 800 PETROLEUM BASED LUBRICANT AND COOLANT |
| PRODUCT | 11 | SAME AS #10 |
| PRODUCT | 12 | SAME AS #10 |
| PRODUCT | 13 | SAME AS #10 |
| PRODUCT | 14 | SAME AS #10 |
| PRODUCT | 15 | SAME AS #10 |
| PRODUCT | 16 | SAME AS #10 |
| PRODUCT | 17 | SAME AS #10 |
| PRODUCT | 18 | SAME AS #10 |
| PRODUCT | 19 | SAME AS #10 |
| WASTE | 20 | OIL SATURATED SAND BARRELL |
| WASTE | 21 | SAME AS #20 |
| WASTE | 22 | SAME AS #20 |
| WASTE | 23 | SAME AS #20 |
| WASTE | 24 | SAME AS #20 |
| WASTE | 25 | SAME AS #20 |
| PRODUCT | 26 | EMPTY PLASTIC BARRELL. (RETURN FOR CREDIT) |
| PRODUCT | 27 | CLORINE BARRELL IN PUMP HOUSE FOR USE H ₂ O. |
| PRODUCT | 28 | HYDRAULIC OIL |
| PRODUCT | 29 | SAME AS #28 |
| WASTE | 30 | SOILD PAINT |
| PRODUCT | 31 | RED OXIDE PRIMER |

Dura-Bond

Table II-2 (continued)

Steel Corp.

STRUCTURAL STEEL
MISCELLANEOUS STEEL
REINFORCING STEEL
METAL DECK
STEEL JOIST
WELDED WIRE FABRIC

P.O. BOX 60227, 140 S. ELLIS • JACKSONVILLE, FLORIDA 32236-0227

Phone (904) 781-0890

Fax (904) 701-2004

DATE 3/20/91

DANNY WATERS

EPA COORDINATOR.

INVENTORY OF ALL 55 GALLON DRUMS.

| | | | |
|-------------|----|----------------------------|---|
| PRODUCT | 32 | RED OXIDE PRIMER | USED TO SHIP STEEL TO JOB SITE 3/19/91 |
| PRODUCT | 33 | ARCOO CLEAN LUBE #90 OIL | |
| PRODUCT | 34 | HYDRAULIC OIL | |
| PRODUCT | 35 | AUTOMATIC TRANSMISSION OIL | |
| WASTE | 36 | HARD PAINT | |
| EMPTY | 37 | SOLVENT SEE DRUM #234 | COMBINE WITH DRUM # 234. 1/15/91. DANNY WATERS |
| EMPTY | 38 | SOLVENT | USED AS PRODUCT |
| EMPTY | 39 | SOLVENT | SEE DRUM #237 COMBINE WITH DRUM # 237. 1/15/91. DANNY WATERS |
| EMPTY | 40 | SOLVENT | SEE DRUM #236 COMBINE WITH DRUM # 236. 1/15/91. DANNY WATERS |
| HAZ-WASTE | 41 | WATER SOLVENT | |
| HAZ-WASTE | 42 | WATER SOLVENT | |
| HAZ - WASTE | 43 | SOLVENT | |
| EMPTY | 44 | WATER SOLVENT | SEE DRUM # 235 COMBINE WITH DRUM # 235. 1/15/91. DANNY WATERS |
| PRODUCT | 45 | WATER | USED TO SHIP STEEL TO JOB SITE 3/19/91 |
| WASTE | 46 | SAND AND DIRT SOLVENT | |
| WASTE | 47 | SAND AND DIRT SOLVENT | |
| EMPTY | 48 | SOLVENT | SEE DRUM # 237 COMBINE WITH DRUM # 237. 1/15/91. DANNY WATERS |
| PRODUCT | 49 | CORE COAT URETHANE | |
| WASTE | 50 | HARD PAINT | |
| EMPTY | 51 | SOLVENT | SEE DRUM # 234 COMBINE WITH DRUM # 234. 1/15/91. DANNY WATERS |
| PRODUCT | 52 | CORE COAT URETHANE | |
| PRODUCT | 53 | OIL | |
| EMPTY | 54 | SOLVENT | USED TO SHIP STEEL TO JOB SITE 3/19/91. |
| EMPTY | 55 | SOLVENT | SEE DRUM # 235 COMBINE WITH DRUM # 235. 1/15/91. DANNY WATERS |
| HAZ -WASTE | 56 | SOLVENT | |
| PRODUCT | 57 | OIL | |
| PRODUCT | 58 | HYDRAULIC OIL | |
| WASTE | 59 | SOLID PAINT | |
| PRODUCT | 60 | COAL TAR THINNER | |
| PRODUCT | 61 | MOTOR OIL | #61 RETURNED FOR CREDIT 2/4/91 |
| PRODUCT | 62 | ANCHORING MATERIAL | |
| PRODUCT | 63 | LUBE GREASE | |

Dura-Bond

Steel Corp.

STRUCTURAL STEEL
MISCELLANEOUS STEEL
REINFORCING STEEL
METAL DECK
STEEL JOIST
WELDED WIRE FABRIC

P.O. BOX 60837, 140 S. ELLIS • JACKSONVILLE, FLORIDA 32236-0937

Phone (904) 781-0898

Fax (904) 787-2004

DATE: 3/20/91

DANNY WATERS
EPA COORINATOR

INVENTORY OF ALL #55GALLON DRUMS

[illegible]

Table II-2 (continued)

Dura-Bond

Steel Corp.

STRUCTURAL STEEL
MISCELLANEOUS STEEL
REINFORCING STEEL
METAL DECK
STEEL JOIST
WELDED WIRE FABRIC

PO. BOX 50937, 140 S. ELLIS • JACKSONVILLE, FLORIDA 32236-0037

Phone (904) 781-0898

Fax (904) 781-2004

DATE 3/20/91

DANNY WATERS.
EPA COORDINATOR.

INVENTORY OF ALL 55 GALLON DRUMS.

| | | |
|-----------|------|--|
| PRODUCT | 87 | HYDRAULIC OIL |
| EMPTY | JCB8 | SOLVENT SEE DRUM #235 COMBINE WITH DRUM # 235. 1/15/91. DANNY WATERS |
| EMPTY | JCB9 | SOLID PRIMER SEE DRUM #234 COMBINE WITH DRUM# 234. 1/15/91. DANNY WATERS |
| PRODUCT | 90 | GREY PRIMER |
| WASTE | JCB1 | DIRT AND SAND SOLVENT |
| PRODUCT | 92 | CORE COAT URETHANE |
| PRODUCT | 93 | SAME AS #92 |
| PRODUCT | 94 | SAME AS #92 |
| EMPTY | JCB5 | SOLVENT USED TO SHIP STEEL TO JOB SITE 3/19/91 |
| PRODUCT | 96 | KOPPERS JET SET PRIMER |
| WASTE | JCB7 | DIRT AND SAND SOLVENT |
| PRODUCT | 98 | EMPTY DRUM USED TO SHIP STEEL TO JOB SITE 3/19/91 |
| PRODUCT | 99 | CORE COAT URETHANE |
| PRODUCT | 100 | KOPPERS JET SET PRIMER |
| PRODUCT | 101 | CORE COAT URETHANE |
| PRODUCT | 102 | SAME AS # 101 |
| PRODUCT | 103 | HYDRAULIC OIL |
| PRODUCT | 104 | SAME AS # 103 |
| PRODUCT | 105 | OIL |
| PRODUCT | 106 | OIL |
| PRODUCT | 107 | OIL |
| PRODUCT | 108 | NEW MIX NOT OPENED |
| PRODUCT | 109 | SAME AS # 108 USED TO SHIP STEEL TO JOB SITE 3/19/91 |
| PRODUCT | 110 | SAME AS # 108 USED TO SHIP STEEL TO JOB SITE 3/19/91 |
| PRODUCT | 111 | SAME AS # 108 USED TO SHIP STEEL TO JOB SITE 3/19/91 |
| HAZ-WASTE | 112 | SOLVENT |
| PRODUCT | 113 | EMPTY DRUM USED TO SHIP STEEL TO JOB SITE 3/19/91 |
| PRODUCT | 114 | KOPPERS COAL TAR |
| PRODUCT | 115 | SAME AS # 114 |
| PRODUCT | 116 | SAME AS # 114 |
| PRODUCT | 117 | SAME AS # 114 |

Dura-Bond

Steel Corp.

STRUCTURAL STEEL
MISCELLANEOUS STEEL
REINFORCING STEEL
METAL DECK
STEEL JOIST
WELDED WIRE FABRIC

J. BOX 50237, 140 S. ELLIS • JACKSONVILLE, FLORIDA 32236-0837

Phone (904) 781-0098

Fax (904) 781-2004

DATE 3/20/91

DANNY WATERS

EPA COORDINATOR.

INVENTORY OF ALL 55 GALLON DRUMS.

| | | |
|---------|----------|---|
| PRODUCT | DUCT 119 | WATER EMPTY USED TO SHUT STEEL TO ICR SITE 3/10/91 |
| PRODUCT | 120 | SCRAP DRUM |
| PRODUCT | 121 | SAME AS #120 |
| PRODUCT | 122 | DUST FROM WHEELABRATOR SOLD TO CHATHAM STEEL 2/1/91 |
| PRODUCT | 123 | SAME AS # 122 SAME AS # 122 |
| PRODUCT | 124 | SAME AS #122 SAME AS #122 |
| PRODUCT | 125 | SAME AS #122 SAME AS #122 |
| PRODUCT | 126 | SAME AS #122 |
| PRODUCT | 127 | SAME AS #122 SAME AS #122 |
| PRODUCT | 128 | SAME AS #122 SAME AS # 122 |
| PRODUCT | 129 | SAME AS #122 SAME AS # 122 |
| PRODUCT | 130 | SAME AS # 122 SAME AS # 122 |
| PRODUCT | 131 | SAME AS #122 SAME AS # 122 |
| PRODUCT | 132 | SAME AS #122 SAME AS # 122 |
| PRODUCT | 133 | SAME AS #122 SAME AS # 122 |
| PRODUCT | 134 | SAME AS #122 SAME AS # 122 |
| PRODUCT | 135 | SAME AS #122 SAME AS # 122 |
| PRODUCT | 136 | SAME AS #122 SAME AS # 122 |
| PRODUCT | 137 | SAME AS #122 SAME AS # 122 |
| PRODUCT | 138 | SAME AS #122 SAME AS # 122 |
| PRODUCT | 139 | SAME AS #122 SAME AS # 122 |
| PRODUCT | 140 | SAME AS #122 SAME AS #122 |
| PRODUCT | 141 | HYDRAULIC OIL |
| PRODUCT | 142 | CRIT AND SHOT |
| PRODUCT | 143 | CRIT AND SHOT |
| PRODUCT | 144 | SAME AS #122 |
| PRODUCT | 145 | SAME AS #122 |
| PRODUCT | 146 | KOMIERS COAL TAR |
| PRODUCT | 147 | SAME AS #146 |
| PRODUCT | 148 | SAME AS #146 |
| PRODUCT | 149 | SAME AS #146 |
| PRODUCT | 150 | SAME AS #146 |

Dura-Bond

Steel Corp.

STRUCTURAL STEEL
MISCELLANEOUS STEEL
HEAVYFORCING STEEL
METAL DECK
STEEL JOIST
WELDED WIRE FABRIC

P.O. BOX 50937, 140 S. ELLIS • JACKSONVILLE, FLORIDA 32236-0937

Phone (904) 781-0898

Fax (904) 781-2004

DATE 3/20/91

DANNY WATERS

EPA COORDINATOR.

INVENTORY OF ALL 55 GALLON DRUMS.

| | |
|---------|-----------------------------------|
| PRODUCT | 151 EPOXY/PASTER OIL COAT BLUE |
| PRODUCT | 152 KODOLITE COAL TAR |
| PRODUCT | 153 SAME AS #152 |
| PRODUCT | 154 SAME AS #152 |
| PRODUCT | 155 SAME AS #152 |
| PRODUCT | 156 SAME AS #151 |
| PRODUCT | 157 HYDRAULIC OIL |
| ASTE | 158 DIRT AND SAND OIL |
| OLD | 159 DUST FROM WHEELABRATOR |
| OLD | 160 SAME AS #159 |
| OLD | 161 SAME AS #159 |
| OLD | 162 SAME AS #159 |
| OLD | 163 SHOT AND CRIT |
| OLD | 164 SHOT AND CRIT |
| OLD | 165 DUST FROM WHEELABRATOR |
| OLD | 166 SAME AS #165 |
| OLD | 167 SAME AS #165 |
| OLD | 168 SAME AS #165 |
| OLD | 169 SAME AS #165 |
| OLD | 170 SAME AS #165 |
| OLD | 171 SAME AS #165 |
| OLD | 172 SAME AS #165 |
| OLD | 173 SAME AS #165 |
| OLD | 174 SAME AS #165 |
| OLD | 175 SAME AS #165 |
| OLD | 176 SAME AS #165 |
| OLD | 177 THOMPSONS WATER SEAL |
| PRODUCT | 178 DIESEL FUEL (PILING PRODUCTS) |
| PRODUCT | 179 MOTOR OIL (PILING PRODUCTS) |
| PRODUCT | 180 MOTOR OIL (PILING PRODUCTS) |
| PRODUCT | 181 MOTOR OIL (PILING PRODUCTS) |
| PRODUCT | 182 MOTOR OIL 30 WT |

Dura-Bond

Steel Corp.

STRUCTURAL STEEL
MISCELLANEOUS STEEL
REINFORCING STEEL
METAL DECK
STEEL JOIST
WELDED WIRE FABRIC

P.O. BOX 60337, 140 S. ELLIS • JACKSONVILLE, FLORIDA 32236-0037

Phone (904) 781-0898

Fax (904) 781-2004

DATE 3/20/91.. - 1991

DANNY WATERS

EPA COORDINATOR.

INVENTORY OF ALL 55 GALLON DRUMS.

PRODUCT

EMPTY

PRODUCT

183 SOLIDARIE OIL

184 MOTOR OIL USED TO SHIP STEEL TO JOB SITE 3/19/91

185 HYDRAULIC OIL

Dura-Bond

Steel Corp.

STRUCTURAL STEEL
MISCELLANEOUS STEEL
REINFORCING STEEL
METAL DECK
STEEL JOIST
WELDED WIRE FABRIC

P.O. BOX 60937, 140 S. ELLIS • JACKSONVILLE, FLORIDA 32236-0937

Phone (904) 781-0898

Fax (904) 781-2004

DATE 3/20/91

DANNY WATERS.

EPA COCHINATOR.

INVENTORY OF ALL 55 GALLON DRUMS.

| | | |
|---------|-----|----------------------|
| SOLD | 186 | WHEELABRATOR DUST |
| SOLD | 187 | SAME AS #186 |
| SOLD | 188 | SAME AS #186 |
| SOLD | 189 | SAME AS #186 |
| SOLD | 190 | SAME AS #186 |
| SOLD | 191 | SAME AS #186 |
| PRODUCT | 192 | SAME AS #186 |
| SOLD | 193 | SAME AS #186 |
| SOLD | 194 | SAME AS # 186 |
| PRODUCT | 195 | SAME AS # 186 |
| SOLD | 196 | SAME AS # 186 |
| SOLD | 197 | SAME AS #186 |
| PRODUCT | 198 | SAME AS #186 |
| SOLD | 199 | SAME AS #186 |
| EMPTY | 200 | G-25 SMC |
| EMPTY | 201 | SAME AS #200 |
| EMPTY | 202 | SAME AS #200 |
| EMPTY | 203 | SAME AS #200 |
| EMPTY | 204 | SAME AS #200 |
| EMPTY | 205 | SAME AS # 200 |
| EMPTY | 206 | SAME AS # 200 |
| EMPTY | 207 | SAME AS # 200 |
| PRODUCT | 208 | DIESEL OIL FOR TRUCK |
| PRODUCT | 209 | SOLUBLE OIL |
| PRODUCT | 210 | PASTE BLUE |
| PRODUCT | 211 | PASTE BLUE |
| PRODUCT | 212 | PASTE BLUE |
| PRODUCT | 213 | PASTE BLUE |
| PRODUCT | 214 | PASTE BLUE |
| PRODUCT | 215 | PASTE BLUE |
| PRODUCT | 216 | PASTE BLUE |
| PRODUCT | 217 | PASTE BLUE |

Dura-Bond

Steel Corp.

STRUCTURAL STEEL
MISCELLANEOUS STEEL
REINFORCING STEEL
METAL DECK
STEEL JOIST
WELDED WIRE FABRIC

P.O. BOX 60837, 140 S. ELLIS • JACKSONVILLE, FLORIDA 32236-0837

Phone (904) 781-0898

Fax (904) 781-2004

DATE 3/28/91

DANNY WATERS

INVENTORY OF ALL 55 GALLON DRUMS

EPA COORDINATOR.

| | | |
|-----------|-----|---|
| PRODUCT | 218 | MOTOR OIL #40 |
| AZ-WASTE | 219 | MIXED PAINT |
| AZ-WASTE | 220 | SAME AS #219 |
| AZ-WASTE | 221 | SAME AS # 219 |
| AZ-WASTE | 222 | SAME AS # 219 |
| AZ-WASTE | 223 | PAINT CAN'S PUT IN 55GALLON DRUM 1-CALLON CAN'S. 1/15/91 DANNY WATERS |
| AZ-WASTE | 224 | SAME AS #223 |
| AZ-WASTE | 225 | SAME AS #223 |
| HAZ-WASTE | 226 | SAME AS #223 |
| SOLD | 227 | SCRAP STEEL |
| PRODUCT | 228 | SAME AS #227 |
| PRODUCT | 229 | SAME AS # 227 |
| SOLD | 230 | SAME AS # 227 |
| PRODUCT | 231 | RAC DRUM |
| PRODUCT | 232 | SAME AS # 231 |
| PRODUCT | 233 | SAME AS # 231 |
| HAZ-WASTE | 234 | MIXED PAINT. COMBINE DRUM'S #89-37-51 ARE EMPTY DANNY WATERS 1/15/91 |
| HAZ-WASTE | 235 | MIXED PAINT. COMBINE DRUM'S #85-33-44-88 ARE EMPTY DANNY WATERS 1/15/91 |
| HAZ-WASTE | 236 | MIXED PAINT. COMBINE DRUM'S #40-54 ARE EMPTY DANNY WATERS 1/15/91 |
| HAZ-WASTE | 237 | MIXED PAINT. COMBINE DRUM'S #48-39 ARE EMPTY DANNY WATERS 1/15/91 |
| HAZ-WASTE | 238 | MIXED PAINT. COMBINE DRUM'S #77 IS EMPTY DANNY WATERS 1/15/91 |
| EMPTY | 239 | EMPTY DRUM USED TO SHIP STEEL TO JCB SITE 3/19/91 |

Dura-Bond

P.O. BOX 60837, 140 S. ELLIS - JACKSONVILLE, FLORIDA 32236-0837

Fax (904) 781-2004

DATE 3/20/91 -

EPA COORDINATOR

INVENTORY OF ALL #55GALLON DRUMS

PRODUCT

| | |
|-----|--|
| 240 | MEK DRUM EMPTY 2-20-91 |
| 241 | MEK DRUM EMPTY 2-20-91 USED TO SHIP STEEL TO JOB SITE 3/19/91 |
| 242 | MEK DRUM FULL 2-20-91 PRODUCT USED TO SHIP STEEL TO JOB SITE 3/19/91 |
| 243 | MEK DRUM FULL 2-20-91 PRODUCT. |
| 244 | MEK DRUM FULL 2-20-91 PRODUCT. |
| 245 | STEEL SHOT.. SOLD TO CHATHAM STEEL 2-6-91 COPY HAS BEEN FAX TO YOU ON 2-7-91 |
| 246 | STEEL SHOT.. SOLD TO CHATHAM STEEL 2-6-91 COPY HAS BEEN FAX TO YOU ON 2-7-91 |
| 247 | MOTOR OIL |
| 248 | MOTOR OIL |
| 249 | MOTOR OIL SAF #40 |

| | |
|-----|---|
| 250 | HEARD PAINT |
| 251 | SHAWEN WILLIAMS RED OXIDE PRIMER PRODUCT. |

recycled, or it was shipped offsite for disposal at a sanitary landfill (References 25, 27, 100, 104). Dura-Bond estimated that it collected approximately twelve tons of this residue per year (Reference 22). In February 1991, Dura-Bond sold fifty-six drums of dust from the Wheelabrator® machine to Chatham Steel.

According to Mr. Norris, the outside sandblaster used an air blast system. He also told team members during the VSI that Black Beauty™ was used in this machine (Reference 101). Black Beauty™ is a by-product of the combustion of coal which is processed into an abrasive product. It typically is composed of fused ferro-alumino-silicate which is formed when molten slag is quenched in cold water. The end result is a coarse non-crystalline black glass. Black Beauty™ contains several hazardous constituents including antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium, and zinc. There is concern that Black Beauty™ could enter environmental media through runoff to surface water or leaching to ground water. The residue from this machine was composed of rust millscale and sand (Reference 104). Select sand from the outside blasting area was used for fill in two fill areas (SWMUs 8 and 16) on the property (Reference 27). Some sandblast residue was used as fill in the marshy area between the main facility building and the north warehouse, and residue that fell to the ground during blasting operations was graded in the surrounding area on the western side of the property or gathered in a pile northwest of the outside sandblaster (Reference 100).

4. Construction Debris

According to Mr. Norris, Dura-Bond has attempted to have a concrete recycling service collect concrete debris that is primarily located in the two debris piles on the western edge of the property (SWMUs 17 and 21). However, he stated that no one has ever come to retrieve the debris for disposal (Reference 100).

5. Sanitary Wastewater

According to Mr. Norris, sanitary wastewater from the Dura-Bond property is discharged through the City of Jacksonville sewer system (Reference 100).

6. Used Oil

Mr. Norris stated that Dura-Bond never used the underground waste oil storage tank that was formerly located in the southeastern corner of the property. This waste oil tank was excavated and removed in July 1989 by Bill Johns Waste Oil Service of Jacksonville (References 99, 104). According to Mr. Norris, waste oil was stored in drums at the facility which were collected by Holloway Oil Company of Jacksonville for disposal

(Reference 100). During the VSI, at least one drum labeled as waste oil was observed near the Ramp Area (SWMU 7).

7. Scrap Metal

Some of Dura-Bond's scrap metal that was placed in a scrap metal bin has been sent to its neighbor, Chatham Steel (Reference 100). See D.3 above on page II-14 for more details.

8. General Facility Refuse

Office refuse, packaging, and shop wastes generated by Dura-Bond were collected in on-site roll-off containers supplied by Browning Ferris Industries (BFI). These units were emptied on a regular basis by BFI for disposal offsite. Paint containers were left open to air dry and then crushed and placed into the roll-off dumpster, according to the available file material (References 99, 100). Approximately 300 to 350 cubic feet of solid waste was accumulated in the roll-offs each month. Approximately half of the waste was reportedly composed of crushed paint cans (Reference 99).

9. Used Tires

Mr. Norris stated that the used tires that were observed during the VSI on June 25, 1992 throughout the property (either in separate piles or in the construction debris piles) were left by trucking operations at the site. They have been accumulating since Dura-Bond began operating at the property. He did not mention any waste management plans for the tires (Reference 100).

E. Regulatory History

This section presents the regulatory history of the facility, including any site investigations, RCRA and closure activities, along with information regarding any permits granted to the facility.

1. Previous Site Investigations

Numerous site investigations have been conducted at the Dura-Bond facility since 1990. These are detailed below along with other actions taken by Dura-Bond as part of the RCRA program.

2. RCRA Activities

EPA first became involved with the Dura-Bond site in 1988 when Dura-Bond Protective Coating Co. submitted a Notification of Hazardous Waste Activity to U.S. EPA for the generation of less than 1000 kilograms (kg) per month. It described its hazardous wastes from nonspecific sources as F003 and F005 wastes. In June 1988, FDER issued Dura-Bond a facility identification number and granted it status as a Small Quantity Generator (Reference 3).

The Dura-Bond facility was inspected on October 22, 1990 in response to a complaint alleging improper handling and disposal of hazardous waste. On December 5, 1990, FDER issued Warning Notice No. WN90-0216HW16NED to Dura-Bond citing violations of hazardous waste regulations (References 92, 47).

FDER assessed a civil penalty, stating that Dura-Bond was discharging hazardous waste consisting of paint solvents as a regular practice during its operations. FDER based its penalty on Dura-Bond's major violations of RCRA which involved discharging without a permit as part of an ongoing operation. FDER divided its penalties against Dura-Bond into ten areas. It listed each violation with a proposed penalty and justification. Among those violations noted at the Dura-Bond facility were the treatment, storage, or disposal of hazardous waste without a permit; lack of a closure plan; the land disposal of hazardous wastes without ground-water monitoring; lack of a contingency plan for use in the event of an accidental release of hazardous waste; the treatment, storage, or disposal of hazardous wastes without financial assurances; the treatment, storage, or disposal of hazardous wastes without notification; a lack of training for facility personnel; and a lack of arrangements with local authorities (Reference 21). A summary of the proposed penalties is provided in Table II-3.

In response to Dura-Bond's application for a FDER/EPA identification number, FDER assigned Dura-Bond the EPA I.D. Number FLD982168072. (Reference 43).

The Jacksonville Department of Health, Welfare & Bio-Environmental Services inspected Dura-Bond for air permitting requirements on January 11, 1991. Three sources of air pollutants were noted during the inspection including the steel shot abrasive blast booth (Wheelabrator®), the indoor and outdoor tank coating processes, and the open air sandblaster (Reference 25).

Based on a follow-up Hazardous Waste Site Inspection on February 9, 1991, Dura-Bond entered into Consent Order No. 90-0131 with FDER on March 5, 1991 in which Dura-Bond agreed to resolve the violations which had been documented in the first Hazardous Waste Inspection report, pay the penalties, and submit a closure permit application pursuant to its designation as a hazardous waste land disposal facility (References 47, 79). As part of the Consent Order and as recommended in the Hazardous Waste Inspection Report, Dura-Bond submitted six completed copies of FDER Permit Application Form 17-730.900(2) along with the application fee. As part of the corrective actions, Dura-Bond containerized all wastes and placed them in a designated Temporary Waste Storage Area (SWMU 3) onsite prior to offsite disposal by a properly

Table II-3
Summary of Proposed Penalties
(Reference 21)

| REGULATION | VIOLATION | PENALTY | MATRIX | JUSTIFICATION |
|---|--|--------------------|---|---|
| I. 40 CFR 262.11 | Facility did not determine whether or not waste stored is hazardous. | 22,500 Midpoint | Major potential for harm Major extent of deviation | Waste determination is essential to proper waste handling. |
| II. FAC 17-730.240 FAC 17-4.030 40 CFR 264 Subpart H | Land disposal of hazardous waste without a permit. | 22,500 Midpoint | Major potential for harm Major extent of deviation | No application made for permit. |
| III. 40 CFR 264 Subpart L | No groundwater monitoring program. | 22,500 Midpoint | Major potential for harm Major extent of deviation | Hazardous waste routinely discharged to ground with no monitoring of the effect on groundwater. |
| IV. 40 CFR 264 Subpart G | No plans made for the removal of site contaminants. | 22,500 Midpoint | Major potential for harm Major extent of deviation | Will delay the proper closure of the facility. |
| V. 40 CFR 264 Subpart H | Land disposal of hazardous wastes without financial assurances. | 22,500 Midpoint | Major potential for harm Major extent of deviation | Extensive costs for permitting and cleanup with facility finances uncertain. |
| VI. 40 CFR 264 Subpart D | No plan for use in the event of an accidental release of hazardous wastes. | 9,500 Midpoint | Moderate potential harm Major extent of deviation | No plan provided or attempted. |
| VII. 40 CFR 264.16 | No training for facility personnel. | 9,500 Midpoint | Moderate potential harm Major extent of deviation | Standard penalty for the failure to train personnel. |
| VIII. 40 CFR 264.37 | No emergency arrangements with local authorities. | 1,000 Midpoint | Minor potential harm Moderate extent of deviation | Standard penalty for the failure to make arrangements. |
| IX. 40 CFR 262.20 (a) and (b) | Facility disposing of F005 waste rags in the dumpster. | 2,250 Midpoint | Minor potential harm Major extent of deviation | Only a small amount of F005 waste rags involved. |
| X. 40 CFR 265.173 40 CFR 265.174 | Container requirements. | 9,500 Midpoint | Moderate potential harm Major extent of deviation | Containers open, leaking. |
| Total Penalty | | \$144,250 | | |

licensed contractor. Dura-Bond also implemented an inventory system to track all wastes that were generated (Reference 92).

A follow-up Hazardous Waste Site Inspection of the facility was conducted by FDER on February 8, 1991. The inspection was conducted during a soil sampling event. The report noted that all of the drums containing hazardous waste had been closed, labeled, and dated. No additional violations were observed on the property (Reference 47).

Dura-Bond hired a private contractor to determine if there was any soil and ground-water contamination on the property where there had been alleged releases of hazardous waste. MEK/paint waste was allegedly discharged to the ground in an Area Adjacent to the West Side of the Main Facility Building (SWMU 1) and in an Area Immediately Adjacent to the Dumpster (SWMU 2). FDER officials noted the presence of approximately ten drums and numerous smaller containers around the Dumpster (Reference 20).

Soil sampling was performed by RSDI Environmental, Inc. in February 1991. The results showed a positive presence of MEK (Reference 44). A schematic showing the locations of the sampling areas is provided in Figure II-5. Borings 2 and 3 were located in the Area Adjacent to the West Side of the Main Facility Building (SWMU 1). The samples were analyzed for MEK using EPA Method 8015. The concentration of MEK in the soil at the southern end of SWMU 1 ranged from 12.80 to 18.20 milligrams per kilograms (mg/kg). The MEK concentration in the soil ranged from 17.30 mg/kg to 25.90 mg/kg at the northern end of SWMU 1. Samples were also taken in the area Immediately Adjacent to the Dumpster (SWMU 2) - boring 4. The concentration of MEK in the soil ranged from 19.60 mg/kg to 19.70 mg/kg. The results from RSDI's February 1991 soil sampling are shown in Table II-4.

Ground-water sampling was performed in at least one location and soil sampling was performed in at least two locations (using EPA Test Method 8240 by Geraghty & Miller of Jacksonville in February 1991 (Reference 44)). The results of this sampling are presented in Table II-5.

On June 27, 1991, containerized waste was sampled and analyzed for VOCs and RCRA metals. The results showed VOCs at the following levels: MEK 360,000 milligrams per liter (mg/l), toluene 14,000 mg/l, ethylbenzene 6,600 mg/l, and xylenes 29,000 mg/l. Results from metals analyses indicated detectable concentrations of barium 33 mg/l, cadmium 0.18 mg/l, chromium 58 mg/l, and lead 16 mg/l. According to Dura-Bond's Closure Permit Application, the organic constituents detected in the waste sample are consistent with the primary ingredients of the raw products which Dura-Bond used (Reference 92). The results are shown in Table II-6.

Locations of Soil Sampling Areas for MEK (Reference 44)

| Approx | Soil Sample Locations |
|--------|-----------------------|
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 9 |
| 10 | 10 |
| 11 | 11 |
| 12 | 12 |
| 13 | 13 |
| 14 | 14 |
| 15 | 15 |
| 16 | 16 |
| 17 | 17 |
| 18 | 18 |
| 19 | 19 |
| 20 | 20 |
| 21 | 21 |
| 22 | 22 |
| 23 | 23 |
| 24 | 24 |
| 25 | 25 |
| 26 | 26 |
| 27 | 27 |
| 28 | 28 |
| 29 | 29 |
| 30 | 30 |
| 31 | 31 |
| 32 | 32 |
| 33 | 33 |
| 34 | 34 |
| 35 | 35 |
| 36 | 36 |
| 37 | 37 |
| 38 | 38 |
| 39 | 39 |
| 40 | 40 |
| 41 | 41 |
| 42 | 42 |
| 43 | 43 |
| 44 | 44 |
| 45 | 45 |
| 46 | 46 |
| 47 | 47 |
| 48 | 48 |
| 49 | 49 |
| 50 | 50 |
| 51 | 51 |
| 52 | 52 |
| 53 | 53 |
| 54 | 54 |
| 55 | 55 |
| 56 | 56 |
| 57 | 57 |
| 58 | 58 |
| 59 | 59 |
| 60 | 60 |
| 61 | 61 |
| 62 | 62 |
| 63 | 63 |
| 64 | 64 |
| 65 | 65 |
| 66 | 66 |
| 67 | 67 |
| 68 | 68 |
| 69 | 69 |
| 70 | 70 |
| 71 | 71 |
| 72 | 72 |
| 73 | 73 |
| 74 | 74 |
| 75 | 75 |
| 76 | 76 |
| 77 | 77 |
| 78 | 78 |
| 79 | 79 |
| 80 | 80 |
| 81 | 81 |
| 82 | 82 |
| 83 | 83 |
| 84 | 84 |
| 85 | 85 |
| 86 | 86 |
| 87 | 87 |
| 88 | 88 |
| 89 | 89 |
| 90 | 90 |
| 91 | 91 |
| 92 | 92 |
| 93 | 93 |
| 94 | 94 |
| 95 | 95 |
| 96 | 96 |
| 97 | 97 |
| 98 | 98 |
| 99 | 99 |
| 100 | 100 |

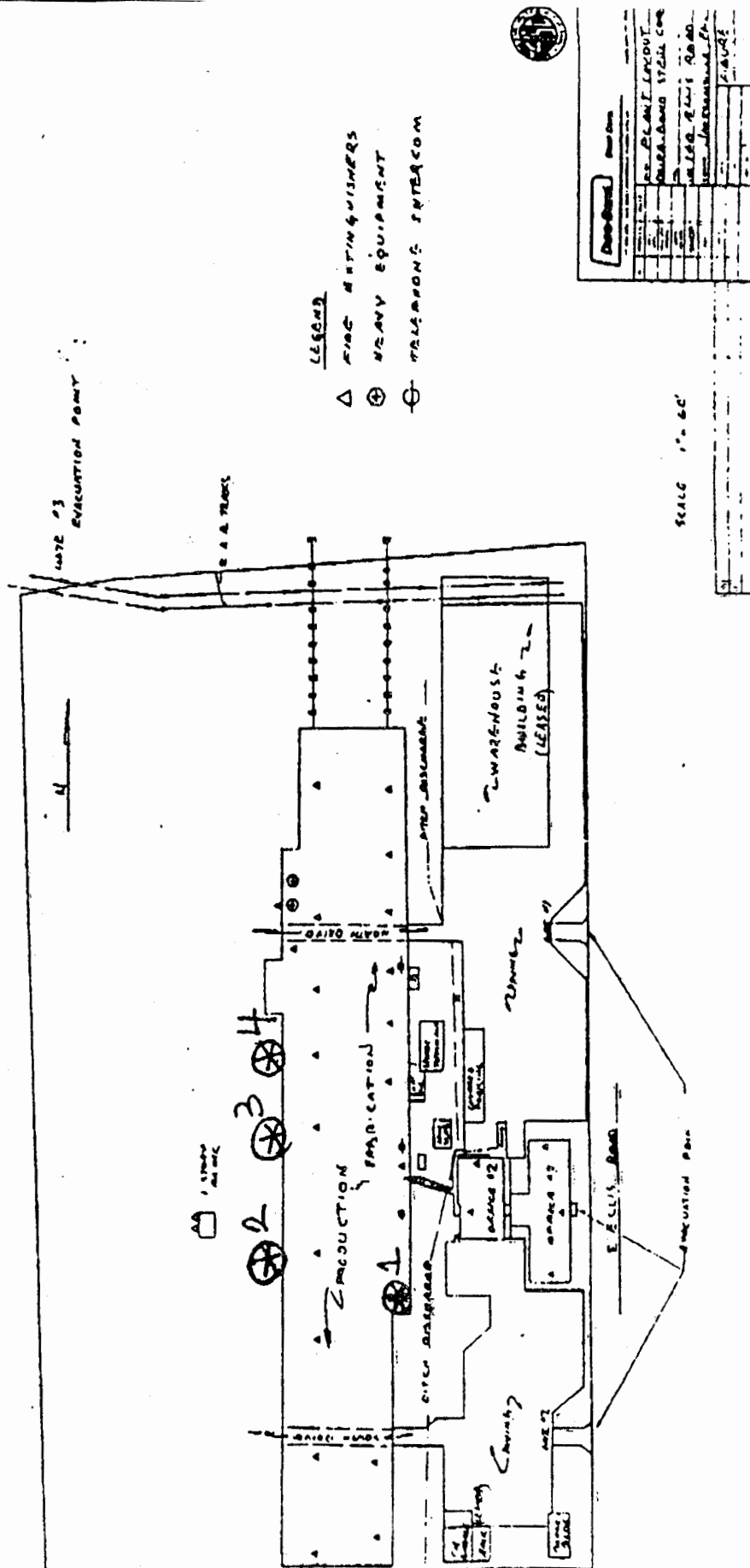


Table II-4
Soil Sampling Results for MEK

Table II-4

Soil Sampling Results for MEK
(Reference 42)



Telephone
(904) 728-2040
FAX
(904) 727-9780

SOUTHEASTERN CHEMISTS' LABORATORIES

P.O. Box 8917
Jacksonville, FL 32239

Laboratory Marks: Job # 31776 Date Of Analysis: February 14, 1991

Sample of: Soil

Client: REDI Environmental 7820 Arlington Expy. Jacksonville, FL.

Analysis By: CO

QA/QC REPORT

| <u>Parameter</u> | <u>Duplicate Acceptance</u> | <u>Duplicate 1 RSD</u> | <u>Spike Acceptance</u> | <u>Spike 1 Recovery</u> |
|------------------|---------------------------------|----------------------------|-----------------------------|-----------------------------|
| 2-Butanone | 2.8-27.2 | 5.25% | 59-155 | 101.3% |

All samples analysed in accordance with EPA, ASTM, or other approved methods.

Respectfully submitted,

Charles M. Ged
Laboratory Director
DER #9003840

CNG/jk

Table II-4 (continued)



SOUTHEASTERN CHEMISTS' LABORATORIES

P.O. Box 8917
Jacksonville, FL 32239

Telephone
(904) 725-2040
FAX
(904) 727-9720

Laboratory Marks: Job # 31776

Date Received: February 8, 1991

Sample of: Soil

Client: RSDI Environmental 7820 Arlington Expy. Suite 600B
Jacksonville, FL

Sample Marks: 1-1 thru 1-3, 2-1 thru 2-3, 3-1, 3-2, 4-1 thru 4-3

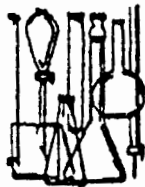
CERTIFICATE OF ANALYSIS

Sample Marks

2-Butanone

| | |
|-----|-------------|
| 1-1 | 20.90 mg/kg |
| 1-2 | 17.50 mg/kg |
| 1-3 | 18.00 mg/kg |
| 2-1 | 18.20 mg/kg |
| 2-2 | 12.80 mg/kg |
| 2-3 | 17.10 mg/kg |
| 3-1 | 17.30 mg/kg |
| 3-2 | 25.90 mg/kg |
| 4-1 | 19.70 mg/kg |

Table II-4 (continued)



Telephone
(904) 725-2040
FAX
(904) 727-9720

SOUTHEASTERN CHEMISTS' LABORATORIES

P.O. Box 8917
Jacksonville, FL 32239

JOB 31776
PAGE 2

CERTIFICATE OF ANALYSIS

| <u>Sample Marks</u> | <u>2-Butanone</u> |
|---------------------|-------------------|
| 4-2 | 19.60 mg/kg |
| 4-3 | 19.70 mg/kg |
| Rinsate Blank | <0.01 mg/l |
| Trip Blank | <0.01 mg/l |

All samples analyzed in accordance with EPA, ASTM, or other approved methods.

Respectfully submitted,

Charles M. Ged
Laboratory Director
DER #900384G

CMG/jk

Table II-5
Analysis of Soil and Ground Water
February 1991



INARY FINAL DRAFT

PRELIMINARY FINAL DRAFT

GERAGHTY & MILLER
8936 WESTERN WAY

JACKSONVILLE FL 32256-0000

Lab I.D.#: 91-1265A
Order Number: P40018
Order Date: 02/26/91
Client: 07054
Sampled By: R.F.M.
Sample Date: 02/21/91
Sample Time: N/S

N/S = Not Submitted

Project Number: JF-DURABOND
Project Name: DURA BOND STEEL
Sample Site: 140 S. ELLIS RD. - JAX
Sample Type: SOIL

RESULTS

reported on the following page(s)

Table II-5

Analysis of Soil and Groundwater
February 1991 (Reference 99)

Approved By : NOT APPROVED, DRAFT ONLY
page 1.

Table II-5 (continued)



Analytical Technologies, Inc.

11 EAST CLIVE ROAD

PHONE (904) 474-1001

PENSACOLA FLORIDA 32504

MARY FINAL DRAFT

PRELIMINARY FINAL DRAFT

GERAGHTY & MILLER
8936 WESTERN WAY

JACKSONVILLE FL 32256-0000

Lab I.D.#: 91-1265B
Order Number: P40017
Order Date: 02/26/91
Client: 07054
Sampled By: R.F.M.
Sample Date: 02/21/91
Sample Time: N/S

Project Number: JF-DURABOND
Project Name: DURA BOND STEEL
Sample Site: 140 S. ELLIS RD. - JAY
Sample Type: WATER

N/S = Not Submitted

R E S U L T S

reported on the following page(s)

Approved By : NOT APPROVED, DRAFT ONLY

Table II-5 (continued)



Analytical Technologies, Inc.

11 EAST OLIVE ROAD

PENSACOLA, FLORIDA 32514

PENSACOLA, FLORIDA 32514

MINARY FINAL DRAFT

PRELIMINARY FINAL DRAFT

Client: GERAGHTY & MILLER

Lab I.U.#: 91-1265A-1

Project Number: JF-DURABOND

Order Date: 02/26/91

Project Name: DURA BOND STEEL

Sampled By: R.F.M.

Sample Site: 140 S. ELLIS RD. - JAX

Sample Type: SOIL

Sample ID.: SB-1A

Sample Date: 02/21/91 Time: N/S

8240

VOLATILE METHOD 8240

| Parameter | Units | Result | Detection Limit |
|----------------------------|-------|--------|-----------------|
| ACETONE | PPB | BDL | 119 |
| ACROLEIN | PPB | BDL | 1190 |
| ACRYLONITRILE | PPB | BDL | 1190 |
| BENZENE | PPB | BDL | 12 |
| BROMODICHLOROMETHANE | PPB | BDL | 12 |
| BROMOFORM | PPB | BDL | 24 |
| BROMOMETHANE | PPB | BDL | 12 |
| 2-BUTANONE (MEK) | PPB | BDL | 36 |
| CARBON DISULFIDE | PPB | BDL | 12 |
| CARBON TETRACHLORIDE | PPB | BDL | 24 |
| CHLOROBENZENE | PPB | BDL | 12 |
| CHLOROETHANE | PPB | BDL | 12 |
| 2-CHLOROETHYL VINYL ETHER | PPB | BDL | 60 |
| CHLOROFORM | PPB | BDL | 24 |
| CHLOROMETHANE | PPB | BDL | 24 |
| CHLORODIBROMOMETHANE | PPB | BDL | 60 |
| DIBROMOMETHANE | PPB | BDL | 60 |
| DICHLORODIFLUOROMETHANE | PPB | BDL | 60 |
| 1,1-DICHLOROETHANE | PPB | BDL | 12 |
| 1,2-DICHLOROETHANE | PPB | BDL | 24 |
| 1,1-DICHLOROETHENE | PPB | BDL | 12 |
| TOTAL 1,2-DICHLOROETHYLENE | PPB | BDL | 60 |
| 1,2-DICHLOROPROPANE | PPB | BDL | 24 |
| CIS-1,3-DICHLOROPROPENE | PPB | BDL | 12 |
| TRANS-1,3-DICHLOROPROPENE | PPB | BDL | 12 |
| 1,4-DICHLORO-2-BUTENE | PPB | BDL | 60 |
| ETHANOL | PPB | BDL | 595 |
| ETHYLBENZENE | PPB | BDL | 12 |
| ETHYL METHACRYLATE | PPB | BDL | 60 |
| 2-HEXANONE | PPB | BDL | 36 |
| Iodomethane | PPB | BDL | 60 |
| METHYLENE CHLORIDE | PPB | BDL | 36 |
| 4-METHYL-2-PENTANONE | PPB | BDL | 36 |
| STYRENE | PPB | BDL | 24 |
| 1,1,2,2-TETRACHLOROETHANE | PPB | BDL | 24 |

Sample ID.: SB-1A

Test Parameters continued on next page

Table II-5 (continued)



Analytical Technologies, Inc.

11 EAST OLIVE ROAD

PENSACOLA, FLORIDA 32503

PENSACOLA, FLORIDA 32503

IMINARY FINAL DRAFT

PRELIMINARY FINAL DRAFT

Client: GERAGHTY & MILLER
 Project Number: JF-DURABOND
 Project Name: DURA BOND STEEL
 Sample Site: 140 S. ELLIS RD. - JAX
 Sample Type: SOIL

Lab I.D.#: 91-1265A-1
 Order Date: 02/26/91
 Sampled By: R.F.M.

Sample ID.: SB-1A Sample Date: 02/21/91 Time: N/S

/8240

VOLATILE METHOD 8240

continued

| Parameter | Units | Result | Detection Limit |
|------------------------|-------|--------|-----------------|
| TETRACHLOROETHENE | PPB | BDL | 12 |
| TOLUENE | PPB | BDL | 60 |
| 1,1,1-TRICHLOROETHANE | PPB | BDL | 60 |
| 1,1,2-TRICHLOROETHANE | PPB | BDL | 24 |
| TRICHLOROETHENE | PPB | BDL | 12 |
| TRICHLOROFLUOROMETHANE | PPB | BDL | 12 |
| 2,3-TRICHLOROPROPANE | PPB | BDL | 60 |
| VINYL ACETATE | PPB | BDL | 24 |
| VINYL CHLORIDE | PPB | BDL | 12 |
| TOTAL XYLENES | PPB | BDL | 48 |



Analytical Technologies, Inc.
11 EAST OLIVER ROAD
PENSACOLA, FLORIDA 32514
PHONE (904) 474-1001

II-5 FINAL DRAFT

PRELIMINARY FINAL DRAFT

Client: GERAGHTY & MILLER
Object Number: JF-DURABOND
Object Name: DURA BOND STEEL
Sample Site: 140 S. ELLIS RD. - JAX
Sample Type: SOIL

Lab I.D.#: 91-1265A-2
Order Date: 02/26/91
Sampled By: R.F.M.

Sample ID.: SB-1B

Sample Date: 02/21/91 Time: N/S

3240

VOLATILE METHOD S240

| Parameter | Units | Result | Detection Limit |
|----------------------------|-------|--------|-----------------|
| ACETONE | PPB | BDL | 130 |
| ACROLEIN | PPB | BDL | 1299 |
| ACRYLONITRILE | PPB | BDL | 1299 |
| BENZENE | PPB | BDL | 13 |
| BROMODICHLOROMETHANE | PPB | BDL | 13 |
| BROMOFORM | PPB | BDL | 26 |
| BROMOMETHANE | PPB | BDL | 13 |
| 2-BUTANONE (MEK) | PPB | BDL | 39 |
| CARBON DISULFIDE | PPB | BDL | 13 |
| CARBON TETRACHLORIDE | PPB | BDL | 26 |
| CHLOROBENZENE | PPB | BDL | 13 |
| CHLOROETHANE | PPB | BDL | 13 |
| 2-CHLOROETHYL VINYL ETHER | PPB | BDL | 65 |
| CHLOROFORM | PPB | BDL | 26 |
| CHLOROMETHANE | PPB | BDL | 26 |
| CHLORODIBROMOMETHANE | PPB | BDL | 65 |
| DIBROMOMETHANE | PPB | BDL | 65 |
| DICHLORODIFLUOROMETHANE | PPB | BDL | 65 |
| 1,1-DICHLOROETHANE | PPB | BDL | 13 |
| 1,2-DICHLOROETHANE | PPB | BDL | 26 |
| 1,1-DICHLOROETHENE | PPB | BDL | 13 |
| TOTAL 1,2-DICHLOROETHYLENE | PPB | BDL | 65 |
| 1,2-DICHLOROPROPANE | PPB | BDL | 26 |
| CIS-1,3-DICHLOROPROPENE | PPB | BDL | 13 |
| TRANS-1,3-DICHLOROPROPENE | PPB | BDL | 13 |
| 1,4-DICHLORO-2-BUTENE | PPB | BDL | 65 |
| ETHANOL | PPB | BDL | 649 |
| ETHYLBENZENE | PPB | BDL | 13 |
| ETHYL METHACRYLATE | PPB | BDL | 65 |
| 2-HEXANONE | PPB | BDL | 39 |
| IODOMETHANE | PPB | BDL | 65 |
| METHYLENE CHLORIDE | PPB | BDL | 39 |
| 4-METHYL-2-PENTANONE | PPB | BDL | 39 |
| STYRENE | PPB | BDL | 26 |
| 1,1,2,2-TETRACHLOROETHANE | PPB | BDL | 26 |

Sample ID.: SB-1B

Test Parameters continued on next page



Analytical Technologies, Inc.
11 EAST OLIVE ROAD
PENSACOLA FLORIDA 32514
PHONE (904) 474-1600

PRELIMINARY FINAL DRAFT

PRELIMINARY FINAL DRAFT

Client: GERAGHTY & MILLER

Lab T.O.#: 91-1265A-2

Project Number: JF-DURABOND

Order Date: 02/26/91

Project Name: DURA BOND STEEL

Sampled By: R.F.M.

Sample Site: 140 S. ELLIS RD. - JAX

Sample Type: SOIL

Sample ID.: SB-1B

Sample Date: 02/21/91 Time: N/S

8240

VOLATILE METHOD 8240

continued

| Parameter | Units | Result | Detection Limit |
|------------------------|-------|--------|-----------------|
| TETRACHLOROETHENE | PPB | BDL | 13 |
| TOLUENE | PPB | BDL | 65 |
| 1,1,1-TRICHLOROETHANE | PPB | BDL | 65 |
| 1,1,2-TRICHLOROETHANE | PPB | BDL | 26 |
| TRICHLOROETHENE | PPB | BDL | 13 |
| TRICHLOROFLUOROMETHANE | PPB | BDL | 13 |
| 1,3-TRICHLOROPROPANE | PPB | BDL | 65 |
| VINYL ACETATE | PPB | BDL | 26 |
| VINYL CHLORIDE | PPB | BDL | 13 |
| TOTAL XYLENES | PPB | BDL | 52 |



Table 11-5 (continued)
Analytical Technologies, Inc.
11 EAST OLIVE ROAD
CORPUS CHRISTI, TEXAS 78401
CORPUS CHRISTI, TEXAS 78401

PRIMARY FINAL DRAFT

PRELIMINARY FINAL DRAFT

Client: GERAGHTY & MILLER
Project Number: JF-DURABOND
Project Name: DURA BOND STEEL
Sample Site: 140 S. ELLIS RD. - JAX
Sample Type: SOIL

Lab I.D.#: 91-1265A-3
Order Date: 02/26/91
Sampled By: R.F.M.

Sample ID.: SB-2

Sample Date: 02/21/91 Time: N/S

8240

VOLATILE METHOD 8240

| Parameter | Units | Result | Detection Limit |
|----------------------------|-------|--------|-----------------|
| ACETONE | PPB | BDL | 116 |
| ACROLEIN | PPB | BDL | 1163 |
| ACRYLONITRILE | PPB | BDL | 1163 |
| BENZENE | PPB | BDL | 12 |
| BROMODICHLOROMETHANE | PPB | BDL | 12 |
| BROMOFORM | PPB | BDL | 23 |
| BROMOMETHANE | PPB | BDL | 12 |
| 2-BUTANONE (MEK) | PPB | BDL | 35 |
| CARBON DISULFIDE | PPB | BDL | 12 |
| CARBON TETRACHLORIDE | PPB | BDL | 23 |
| CHLOROBENZENE | PPB | BDL | 12 |
| CHLOROETHANE | PPB | BDL | 12 |
| 2-CHLOROETHYL VINYL ETHER | PPB | BDL | 58 |
| CHLOROFORM | PPB | BDL | 23 |
| CHLOROMETHANE | PPB | BDL | 23 |
| CHLORODIBROMOMETHANE | PPB | BDL | 58 |
| DIBROMOMETHANE | PPB | BDL | 58 |
| DICHLORODIFLUOROMETHANE | PPB | BDL | 58 |
| 1,1-DICHLOROETHANE | PPB | BDL | 12 |
| 1,2-DICHLOROETHANE | PPB | BDL | 23 |
| 1,1-DICHLOROETHENE | PPB | BDL | 12 |
| TOTAL 1,2-DICHLOROETHYLENE | PPB | BDL | 58 |
| 1,2-DICHLOROPROPANE | PPB | BDL | 23 |
| CIS-1,3-DICHLOROPROPENE | PPB | BDL | 12 |
| TRANS-1,3-DICHLOROPROPENE | PPB | BDL | 12 |
| 1,4-DICHLORO-2-BUTENE | PPB | BDL | 58 |
| ETHANOL | PPB | BDL | 581 |
| ETHYLBENZENE | PPB | BDL | 12 |
| ETHYL METHACRYLATE | PPB | BDL | 58 |
| 2-HEXANONE | PPB | BDL | 35 |
| IODOMETHANE | PPB | BDL | 58 |
| METHYLENE CHLORIDE | PPB | BDL | 35 |
| 4-METHYL-2-PENTANONE | PPB | BDL | 35 |
| STYRENE | PPB | BDL | 23 |
| 1,1,2,2-TETRACHLOROETHANE | PPB | BDL | 23 |

Sample ID.: SB-2

Test Parameters continued on next page

Table II-5 (continued)



Analytical Technologies, Inc.
11 EAST OLIVE ROAD
PENSACOLA, FLORIDA 32504

INARY FINAL DRAFT

PRELIMINARY FINAL DRAFT

Client: GERAGHTY & MILLER
Lab I.D.#: 91-1265A-3
Order Date: 02/26/91
Sampled By: R.F.M.
Project Number: JF-DURABOND
Project Name: DURA BOND STEEL
Sample Site: 140 S. ELLIS RD. - JAX
Sample Type: SOIL
Sample ID.: SB-2
Sample Date: 02/21/91 Time: N/S

3240

VOLATILE METHOD 8240

continued

| Parameter | Units | Result | Detection Limit |
|------------------------|-------|--------|-----------------|
| TETRACHLOROETHENE | PPB | BDL | 12 |
| TOLUENE | PPB | BDL | 38 |
| 1,1,1-TRICHLOROETHANE | PPB | BDL | 58 |
| 1,1,2-TRICHLOROETHANE | PPB | BDL | 23 |
| TRICHLOROETHENE | PPB | BDL | 12 |
| TRICHLOROFLUOROMETHANE | PPB | BDL | 12 |
| 1,2,3-TRICHLOROPROPANE | PPB | BDL | 58 |
| VINYL ACETATE | PPB | BDL | 23 |
| VINYL CHLORIDE | PPB | BDL | 12 |
| TOTAL XYLENES | PPB | BDL | 47 |

end of rep



Analytical Technologies, Inc.

11 EAST OLIVE ROAD

PHONE (904) 474-1001

PENSACOLA, FLORIDA 32514

INARY FINAL DRAFT

PRELIMINARY FINAL DRAFT

Client: GERAGHTY & MILLER
 Project Number: JF-DURABOND
 Project Name: DURA BOND STEEL
 Sample Site: 140 S. ELLIS RD. - JAX
 Sample Type: WATER

Lab I.D.#: 91-1265B-1
 Order Date: 02/26/91
 Sampled By: R.F.M.

Sample ID.: PZ-1 Sample Date: 02/21/91 Time: N/S

/8240

VOLATILE METHOD 8240

| Parameter | Units | Result | Detection Limit |
|----------------------------|-------|--------|-----------------|
| ACETONE | PPB | BDL | 10 |
| ACROLEIN | PPB | BDL | 100 |
| ACRYLONITRILE | PPB | BDL | 100 |
| BENZENE | PPB | BDL | 1 |
| BROMODICHLOROMETHANE | PPB | BDL | 1 |
| BROMOFORM | PPB | BDL | 2 |
| BROMOMETHANE | PPB | BDL | 1 |
| BUTANONE (MEK) | PPB | BDL | 3 |
| CARBON DISULFIDE | PPB | BDL | |
| CARBON TETRACHLORIDE | PPB | BDL | - |
| CHLOROBENZENE | PPB | BDL | 1 |
| CHLOROETHANE | PPB | BDL | 1 |
| 2-CHLOROETHYL VINYL ETHER | PPB | BDL | 5 |
| CHLOROFORM | PPB | BDL | 2 |
| CHLOROMETHANE | PPB | BDL | 2 |
| CHLORODIBROMOMETHANE | PPB | BDL | 5 |
| DIBROMOMETHANE | PPB | BDL | 5 |
| DICHLORODIFLUOROMETHANE | PPB | BDL | 5 |
| 1,1-DICHLOROETHANE | PPB | BDL | 1 |
| 1,2-DICHLOROETHANE | PPB | BDL | 2 |
| 1,1-DICHLOROETHENE | PPB | BDL | 1 |
| TOTAL 1,2-DICHLOROETHYLENE | PPB | BDL | 5 |
| 1,2-DICHLOROPROPANE | PPB | BDL | 2 |
| CIS-1,3-DICHLOROPROPENE | PPB | BDL | 1 |
| TRANS-1,3-DICHLOROPROPENE | PPB | BDL | 1 |
| 1,4-DICHLORO-2-BUTENE | PPB | BDL | 5 |
| ETHANOL | PPB | BDL | 50 |
| ETHYLBENZENE | PPB | BDL | 1 |
| ETHYL METHACRYLATE | PPB | BDL | 5 |
| 2-HEXANONE | PPB | BDL | 3 |
| IODOMETHANE | PPB | BDL | 5 |
| METHYLENE CHLORIDE | PPB | BDL | 3 |
| 4-METHYL-2-PENTANONE | PPB | BDL | 3 |
| STYRENE | PPB | BDL | 2 |
| 1,1,2,2-TETRACHLOROETHANE | PPB | BDL | 2 |

Sample ID.: PZ-1

Test Parameters continued on next page



Analytical Technologies, Inc.

11 EAST OLIVE ROAD

PHONE (904) 474-1001

DEERBACH, FLORIDA 32014

INRY FINAL DRAFT

PRELIMINARY FINAL DRAFT

Client: GERAGHTY & MILLER

Lab I.D.#: 91-1265B-1

Object Number: JF-DURABOND

Order Date: 02/26/91

Object Name: DURA BOND STEEL

Sampled By: R.F.M.

Sample Site: 140 S. ELLIS RD. - JAX

Sample Type: WATER

Sample ID.: PZ-1

Sample Date: 02/21/91 Time: N/S

3240

VOLATILE METHOD 3240

continued

| Parameter | Units | Result | Detection Limit |
|------------------------|-------|--------|-----------------|
| TETRACHLOROETHENE | PPB | BDL | 1 |
| TOLUENE | PPB | BDL | 5 |
| 1,1,1-TRICHLOROETHANE | PPB | BDL | 5 |
| 1,1,2-TRICHLOROETHANE | PPB | BDL | 2 |
| TRICHLOROETHENE | PPB | BDL | 1 |
| TRICHLOROFLUOROMETHANE | PPB | BDL | 1 |
| 1,2,3-TRICHLOROPROPANE | PPB | BDL | 5 |
| ETHYL ACETATE | PPB | BDL | 2 |
| VINYL CHLORIDE | PPB | BDL | 1 |
| TOTAL XYLENES | PPB | BDL | 4 |



Analytical Technologies, Inc.

11 EAST OLIVER ROAD

PHONE (804) 474-1001

PENSACOLA FLORIDA 32514

MINIARY FINAL DRAFT

PRELIMINARY FINAL DRAFT

Client: GERAGHTY & MILLER
 Project Number: JF-DURABOND
 Project Name: DURA BOND STEEL
 Sample Site: 140 S. ELLIS RD. - JAX
 Sample Type: WATER

Lab I.D.#: 91-1265B-2
 Order Date: 02/26/91
 Sampled By: R.F.M.

Sample ID.: RINSATE 1 Sample Date: 02/21/91 Time: N/S

/8240

VOLATILE METHOD 8240

| Parameter | Units | Result | Detection Limit |
|----------------------------|-------|--------|-----------------|
| ACETONE | PPB | BDL | 10 |
| ACROLEIN | PPB | BDL | 100 |
| ACRYLONITRILE | PPB | BDL | 100 |
| BENZENE | PPB | BDL | 1 |
| BROMODICHLOROMETHANE | PPB | BDL | 1 |
| BROMOFORM | PPB | BDL | 2 |
| BROMOMETHANE | PPB | BDL | 1 |
| BUTANONE (MEK) | PPB | BDL | 3 |
| CARBON DISULFIDE | PPB | BDL | 1 |
| CARBON TETRACHLORIDE | PPB | BDL | 2 |
| CHLOROBENZENE | PPB | BDL | 1 |
| CHLOROETHANE | PPB | BDL | 1 |
| 2-CHLOROETHYL VINYL ETHER | PPB | BDL | 5 |
| CHLOROFORM | PPB | BDL | 2 |
| CHLORMETHANE | PPB | BDL | 2 |
| CHLORODIBROMOMETHANE | PPB | BDL | 5 |
| DIBROMOMETHANE | PPB | BDL | 5 |
| DICHLORODIFLUOROMETHANE | PPB | BDL | 5 |
| 1,1-DICHLOROETHANE | PPB | BDL | 1 |
| 1,2-DICHLOROETHANE | PPB | BDL | 2 |
| 1,1-DICHLOROETHENE | PPB | BDL | 1 |
| TOTAL 1,2-DICHLOROETHYLENE | PPB | BDL | 5 |
| 1,2-DICHLOROPROPANE | PPB | BDL | 2 |
| CIS-1,3-DICHLOROPROPENE | PPB | BDL | 1 |
| TRANS-1,3-DICHLOROPROPENE | PPB | BDL | 1 |
| 1,4-DICHLORO-2-BUTENE | PPB | BDL | 5 |
| ETHANOL | PPB | BDL | 50 |
| ETHYLBENZENE | PPB | BDL | 1 |
| ETHYL METHACRYLATE | PPB | BDL | 5 |
| 2-HEXANONE | PPB | BDL | 3 |
| IODOMETHANE | PPB | BDL | 5 |
| METHYLENE CHLORIDE | PPB | BDL | 3 |
| 4-METHYL-2-PENTANONE | PPB | BDL | 3 |
| STYRENE | PPB | BDL | 2 |
| 1,1,2,2-TETRACHLOROETHANE | PPB | BDL | 2 |

Sample ID.: RINSATE 1

Test Parameters continued on next page

Table II-5 (continued)



Analytical Technologies, Inc.
11 EAST OLIVE ROAD
TAMPA, FLORIDA 33612

PRELIMINARY FINAL DRAFT

PRELIMINARY FINAL DRAFT

Client: GERAGHTY & MILLER

Lab I.O.#: 91-12658-2

Project Number: JF-DURABOND

Order Date: 02/26/91

Project Name: DURA BOND STEEL

Sampled By: R.F.M.

Sample Site: 140 S. ELLIS RD. - JAX

Sample Type: WATER

Sample ID.: RINSATE 1

Sample Date: 02/21/91 Time: 5

OL/8240

VOLATILE METHOD 8240

continued

| Parameter | Units | Result | Detection Limit |
|------------------------|-------|--------|-----------------|
| TETRACHLOROETHENE | PPB | BDL | 1 |
| TOLUENE | PPB | BDL | 5 |
| 1,1,1-TRICHLOROETHANE | PPB | BDL | 5 |
| 1,1,2-TRICHLOROETHANE | PPB | BDL | 2 |
| TRICHLOROETHENE | PPB | BDL | 1 |
| TRICHLOROFLUOROMETHANE | PPB | BDL | 1 |
| 1,2,3-TRICHLOROETHANE | PPB | BDL | 5 |
| VINYL ACETATE | PPB | BDL | 2 |
| VINYL CHLORIDE | PPB | BDL | 1 |
| TOTAL XYLENES | PPB | BDL | 4 |

end of report

Table II-6

Analysis of Drummed Waste
June 27, 1991 (Reference 99)

| PARAMETER | WASTE DRUM SAMPLE* |
|-------------------------------------|--------------------|
| VOLATILE ORGANIC COMPOUNDS (8240)** | |
| 2-Butanone, mg/L | 360000 |
| Toluene, mg/L | 14000 |
| Ethylbenzene, mg/L | 6600 |
| Xylenes, mg/L | 29000 |
| Arsenic, mg/L | <0.080 |
| Barium, mg/L | 33 |
| Cadmium, mg/L | 0.18 |
| Chromium, mg/L | 58 |
| Lead, mg/L | 16 |
| Mercury, mg/L | <0.0080 |
| Selenium, mg/L | <0.16 |
| Silver, mg/L | <0.080 |

- * High waste drum sample results are due to dilution of the sample prior to analyses by laboratory.
- ** All Volatile Organic Compounds (EPA Method 8240) not presented on the table were measured below laboratory detection limits.

mg/L milligrams per liter.

Soil samples were collected in two places in the Area Adjacent to West Side of Main Facility Building (SWMU 1) in June 1991. Figure II-6 shows all initial locations for soil borings, ground-water monitoring wells, and background sampling points. SS-2 was taken from the north end of the area and SS-3 from the south end of the area. All VOCs were below detection limits at both borings. For metals, arsenic, chromium, and lead were detected in concentrations of 17 mg/kg, 2.9 mg/kg, and 3.3 mg/kg, respectively, at SS-2, and 34 mg/kg, 16 mg/kg and 82 mg/kg, respectively, at SS-3. Mercury was detected at 0.059 mg/kg at SS-3. Background concentrations determined in July 1991 in the far northwest corner of the facility indicated 18 mg/kg, 6.0 mg/kg, and 26 mg/kg for arsenic, chromium, and lead, respectively. Background levels for mercury were not analyzed (Reference 92).

Soil samples were collected in the Area Immediately Adjacent to the Dumpster (SWMU 2) in June 1991. SS-1 was taken from the northern end of the area. All VOCs were below detection limits at both borings. For metals, arsenic, chromium, lead, and mercury were detected in concentrations of 15 mg/kg, 2.1 mg/kg, 6.4 mg/kg, and 0.017 mg/kg, respectively. Background concentrations determined in July 1991 in the far northwest corner of the facility indicated 18 mg/kg, 6.0 mg/kg, and 26 mg/kg, for arsenic, chromium, and lead, respectively. Results from the June 1991 soil sampling are shown in Table II-7 (Reference 92).

Sampling was performed by Missimer & Associates at two hydraulically downgradient wells on June 25, 1991. MW-2 is located near the western edge of the main facility building and MW-3 is located near the eastern edge of the building. The samples were analyzed for VOCs using EPA Method 8240, as well as the 8 RCRA metals. Barium (0.11 mg/l) was detected in the sample from MW-2. Arsenic 0.029 mg/l, chromium 0.14 mg/l, and lead 0.72 mg/l were detected in the sample from MW-3. The lead concentration exceeded the State of Florida Primary Drinking Water Standards MCLs for lead (0.05 mg/l). A sample taken on July 8, 1991 at MW-3 revealed arsenic 0.016 mg/l and lead 0.045 mg/l in the water. Filtered samples on June 25, 1991 at MW-2 indicated 0.11 mg/l barium. Filtered samples at MW-3 on June 25, 1991 indicated 0.76 mg/l barium and 0.012 mg/l lead. Table II-8 shows the results of this initial ground-water analysis (Reference 92).

Further ground-water samples were taken immediately south of the Area Adjacent to the West Side of the Main Facility Building (SWMU 1) at MW-4 and in two locations adjacent to SWMU 1 within the main building at MW-5 and MW-6. Figure II-7 includes the locations for all additional ground-water monitoring wells. These samples were taken on May 12, 1992. The results for all VOCs were below detection limits. Except for barium, the results

Figure II-6

Map Showing Location of Sampling for Four
Underground and Aboveground Storage Tanks
(Reference 99)

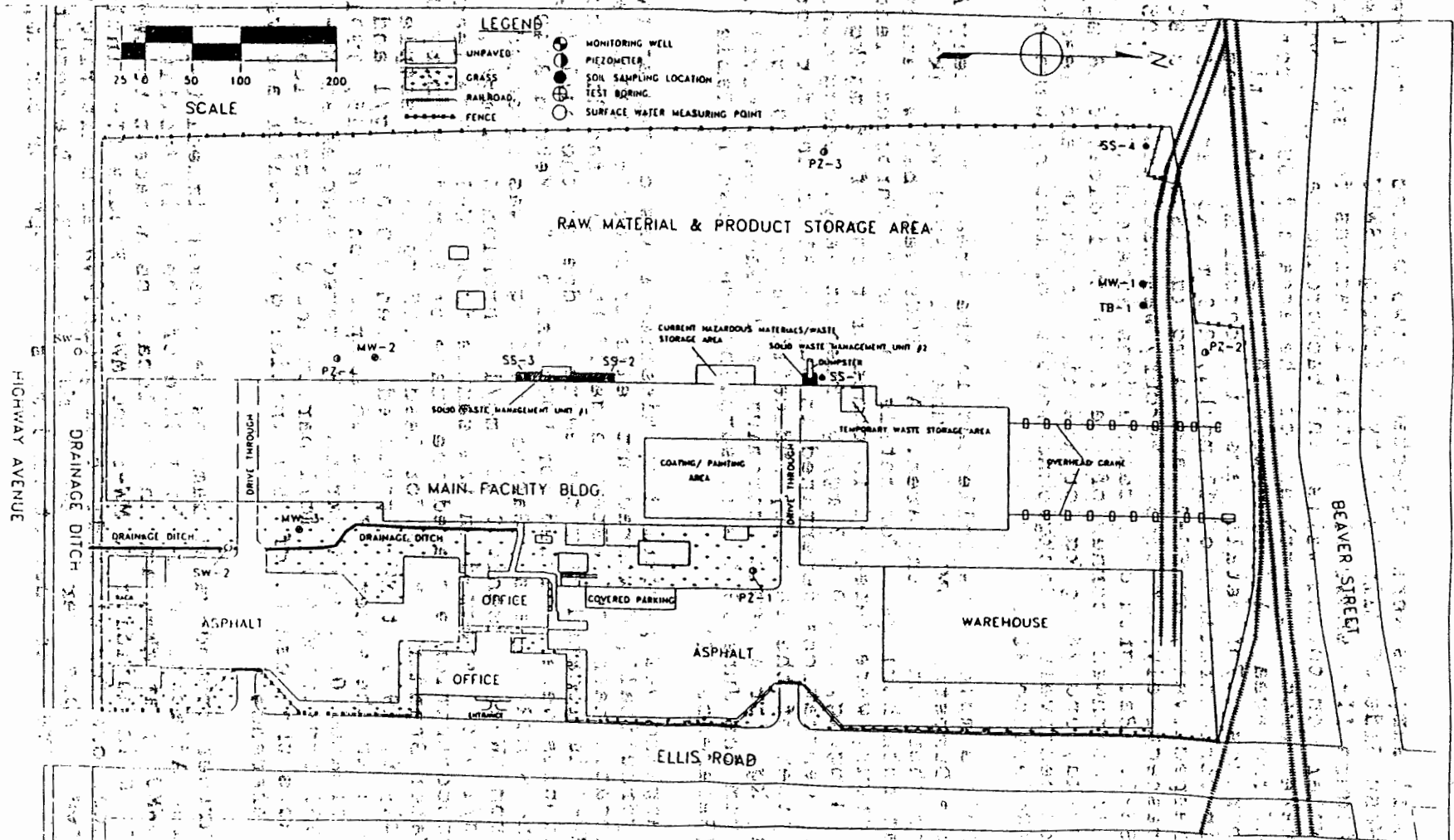


Table II-7

Analysis of Soil Samples
June 25, 1991 and July 8, 1991
 (Reference 92)

| PARAMETER | SS-1 | SS-2 | SS-3 | SS-4* |
|--------------------|--------|--------|--------|-------|
| Arsenic, mg/kg dw | 15 | 17 | 34 | 18 |
| Barium, mg/kg dw | <0.010 | <0.010 | <0.010 | NA |
| Cadmium, mg/kg dw | <0.39 | <0.33 | <0.28 | N |
| Chromium, mg/kg dw | 2.1 | 2.9 | 16 | 6.0 |
| Lead, mg/kg dw | 6.4 | 3.3 | 82 | 26 |
| Mercury, mg/kg dw | 0.017 | <0.012 | 0.059 | NA |
| Selenium, mg/kg dw | <0.77 | <0.66 | <0.56 | NA |
| Silver, mg/kg dw | <0.010 | <0.010 | <0.010 | NA |
| Percent solids, % | 83% | 84% | 83% | 84% |

All Volatile Organic Compounds (EPA Method 8240) were measured below laboratory detection limits for soil samples SS-1, SS-2, and SS-3.

SS-4 was collected on July 8, 1991 as a background sample.

mg/kg dw milligrams per kilogram, dry weight.

NA Not Analyzed

Table II-8

Analysis of Ground Water samples
June 25, 1991 and July 8, 1991
(Reference 92)

| PARAMETER | MW-1 | MW-2 | MW-3 | MW-3* |
|-------------------|----------|----------|----------|--------|
| Arsenic, mg/L | <0.010 | <0.010 | 0.029 | 0.016 |
| Barium, mg/L | 0.052 | 0.11 | <0.010 | NA |
| Cadmium, mg/L | <0.0050 | <0.0050 | <0.0050 | NA |
| Chromium, mg/L | <0.010 | <0.010 | 0.14 | <0.010 |
| Lead, mg/L | <0.0050 | <0.0050 | 0.72 | 0.045 |
| Mercury, mg/L | <0.00020 | <0.00020 | 0.00023 | NA |
| Selenium, mg/L | <0.010 | <0.010 | <0.010 | NA |
| Silver, mg/L | <0.010 | <0.010 | <0.010 | NA |
| Turbidity, NTU | 8.7 | 14 | 420 | 8.8 |
| ** Arsenic, mg/L | <0.010 | <0.010 | <0.010 | NA |
| ** Barium, mg/L | 0.048 | 0.11 | 0.076 | NA |
| ** Cadmium, mg/L | <0.010 | <0.010 | <0.010 | NA |
| ** Chromium, mg/L | <0.010 | <0.010 | <0.010 | NA |
| ** Lead, mg/L | <0.0050 | <0.0050 | 0.012 | NA |
| ** Mercury, mg/L | <0.00020 | <0.00020 | <0.00020 | NA |
| ** Selenium, mg/L | <0.010 | <0.010 | <0.010 | NA |
| ** Silver, mg/L | <0.010 | <0.010 | <0.010 | NA |

All Volatile Organic Compounds (EPA Method 8240) were measured below laboratory detection limits for all wells sampled.

* - MW-3 was resampled July 8, 1991.

** - Filtered.

NA- Not analyzed.

mg/L - milligrams per liter.

NTU - Nephelo Metric Turbidity Unit

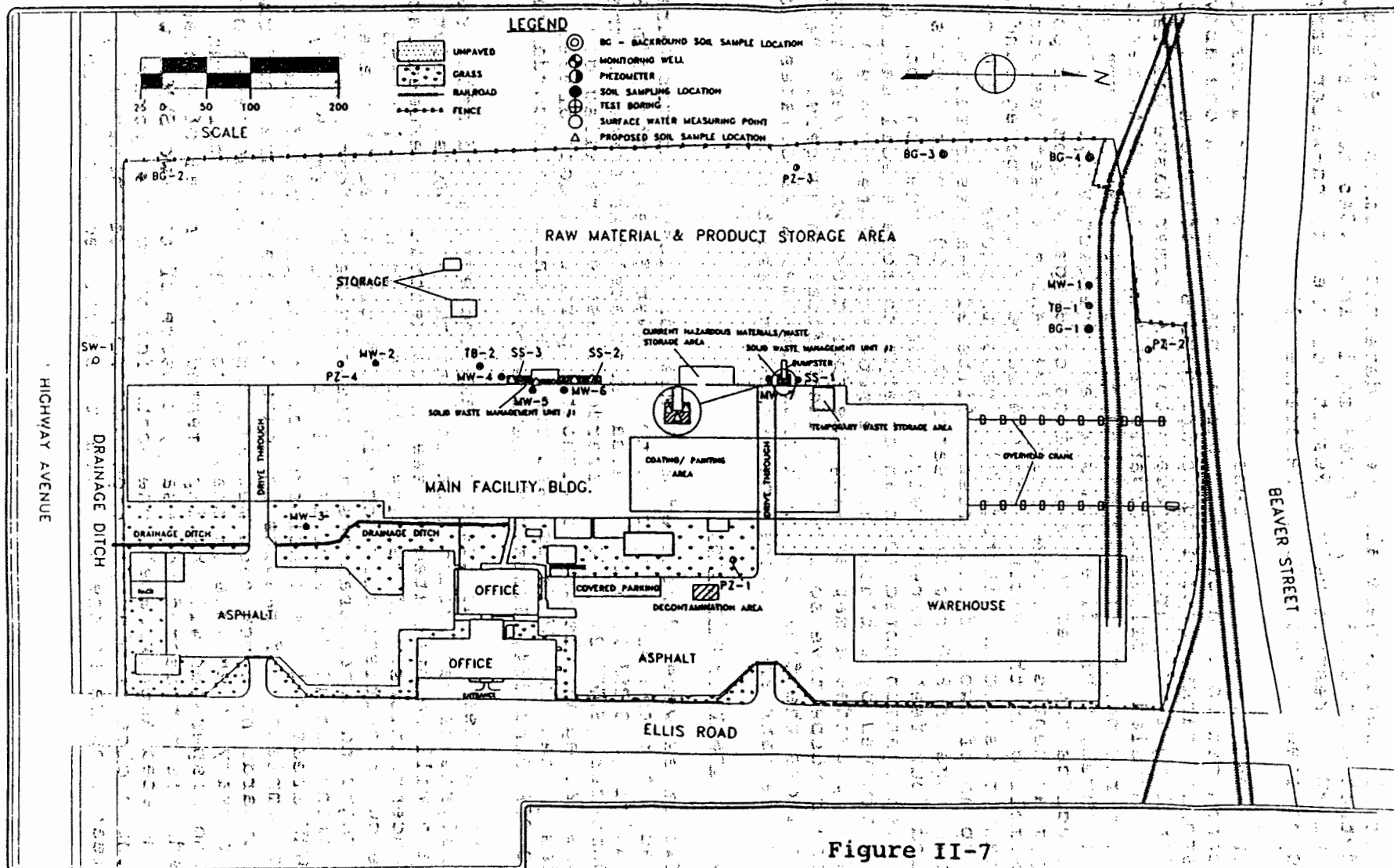


Figure II-7

Locations of All Ground-Water Monitoring Wells
(Reference 92)

for all metals were also below detection limits. Barium was detected at 0.059 mg/l, 0.068 mg/l, and 0.045 mg/l at MW-4, MW-5, and MW-6, respectively. Results of the ground-water sampling are contained in Table II-9 (Reference 92).

On June 21, 1992, a representative from Missimer & Associates conducted soil sampling of three underground and one aboveground storage tanks, according to Mr. Norris (References 99, 104). Sampling in the area adjacent to the former Waste Oil Tank (SWMU 6) revealed unfiltered organic vapor analyzer (OVA) readings of 10 parts per million (ppm), 50 ppm, 33 ppm, and 43 ppm at depths of three, four, five, and six feet, respectively. Filtered OVA readings revealed concentrations of 6 ppm, 45 ppm, 22 ppm, and 15 ppm at depths of three, four, five, and six feet respectively. Sampling in the vicinity of the large 15-ton aboveground storage tank revealed unfiltered OVA levels in excess of 1,000 ppm at depths of two and four feet. Filtered samples resulted in readings of 810 ppm and greater than 1,000 ppm at depths of two and four feet, respectively. In addition, the log book from the investigation noted that an attempt to bore a soil sample was obstructed by a black tar-like substance (Reference 99). Figure II-8 provides a map showing the four tanks which were sampled and their respective soil boring identification numbers. Table II-10 includes the field log book from Missimer & Associates' sampling of the tank and provides the sampling results.

3. Closure Activities

Two areas were identified as SWMUs for closure at the Dura-Bond facility: the Area Adjacent to the West Side of the Main Facility Building (SWMU 1) and the Area Immediately Adjacent to the Dumpster (SWMU 2). F005 hazardous wastes were allegedly discharged to the ground without a permit at both areas. FDER designated the SWMUs as land treatment units in accordance with 40 CFR Part 264, Subpart M (Reference 92).

After at least four quarterly sampling events and after soil analysis of background locations at the two SWMUs, analytical data will be evaluated to see if concentrations exceed background concentrations. If results indicate that concentrations are below or statistically not significantly higher than average background concentrations and the closure performance standard outlined in 40 CFR Part 264.111(a) and (b), then the soil in the SWMU areas will be considered clean and closure of each unit will be complete. If results indicate that the closure performance standards have not been met and removal of contaminated media is necessary, then interim measures to control run-off, run-on, and wind dispersion will be implemented. If removal of contaminated media is not deemed necessary, closure of the two SWMUs will be completed approximately one month following the approval of Dura-Bond's closure plans, except for ground-water monitoring. If clean closure at the site cannot be achieved through the

Table II-9
Results of Further Ground-Water Sampling

Table II-9

Results of Further Ground Water Sampling
(Reference 99)

LOG NO: T2-01037

Revised 06.03.92

Received: 13 MAY 92

Mr. James P. Oliveros

Missimer & Associates, Inc.

8130 Bay Meadows Way, West, Suite 104

Jacksonville, FL 32256

Purchase Order: 591-553

Project: Durabond/JE1-591

Sampled By: Client

REPORT OF RESULTS

Page 1

| LOG NO | SAMPLE DESCRIPTION , LIQUID SAMPLES | | | | | DATE SAMPLED |
|--|-------------------------------------|---------|---------|---------|---------|--------------|
| 01037-1 | MW-1 | | | | | 05-12-92 |
| 01037-2 | SW-1 | | | | | 05-12-92 |
| 01037-3 | MW-4 | | | | | 05-12-92 |
| 01037-4 | MW-5 | | | | | 05-12-92 |
| 01037-5 | MW-6 | | | | | 05-12-92 |
| PARAMETER | 01037-1 | 01037-2 | 01037-3 | 01037-4 | 01037-5 | |
| Volatile Organic Compounds (8240) | | | | | | |
| Chloromethane, ug/l | <10 | <10 | <10 | <10 | <10 | |
| Bromomethane, ug/l | <10 | <10 | <10 | <10 | <10 | |
| Vinyl Chloride, ug/l | <10 | <10 | <10 | <10 | <10 | |
| Chloroethane, ug/l | <10 | <10 | <10 | <10 | <10 | |
| Methylene chloride, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| Acetone, ug/l | <50 | <50 | <50 | <50 | <50 | |
| Carbon disulfide, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 1,1-Dichloroethylene, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 1,1-Dichloroethane, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| cis/trans-1,2-Dichloroethyl ene, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| Chloroform, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 1,2-Dichloroethane, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 2-Butanone, ug/l | <50 | <50 | <50 | <50 | <50 | |
| 1,1,1-Trichloroethane, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| Carbon tetrachloride, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| Vinyl acetate, ug/l | <10 | <10 | <10 | <10 | <10 | |
| Bromodichloromethane, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 1,1,2,2-Tetrachloroethane, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |

Table II-9 (continued)

LOG NO: T2-01037

Revised 06.03.92

Received: 13 MAY 92

Mr. James P. Oliveros

Missimer & Associates, Inc.

8130 Bay Meadows Way, West, Suite 104

Jacksonville, FL 32256

Purchase Order: 591-553

Project: Durabond/JE1-591

Sampled By: Client

REPORT OF RESULTS

Page 2

| LOG NO | SAMPLE DESCRIPTION , LIQUID SAMPLES | DATE SAMPLED |
|---------|-------------------------------------|--------------|
| 01037-1 | MW-1 | 05-12-92 |
| 01037-2 | SW-1 | 05-12-92 |
| 01037-3 | MW-4 | 05-12-92 |
| 01037-4 | MW-5 | 05-12-92 |
| 01037-5 | MW-6 | 05-12-92 |

| PARAMETER | 01037-1 | 01037-2 | 01037-3 | 01037-4 | 01037-5 |
|---------------------------------|---------|---------|---------|---------|---------|
| 1,2-Dichloropropane, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| trans-1,3-Dichloropropene, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Trichloroethylene, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Dibromochloromethane, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 1,1,2-Trichloroethane, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Benzene, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| cis-1,3-Dichloropropene, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 2-Chloroethylvinyl ether, ug/l | <50 | <50 | <50 | <50 | <50 |
| Bromoform, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 2-Hexanone, ug/l | <50 | <50 | <50 | <50 | <50 |
| 4-Methyl-2-pentanone, ug/l | <50 | <50 | <50 | <50 | <50 |
| Tetrachloroethylene, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Toluene, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Chlorobenzene, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Ethylbenzene, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Styrene, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Xylenes, ug/l | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Turbidity, NTU | 21 | 41 | 12 | 52 | 63 |
| Arsenic, mg/l | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 |
| Barium, mg/l | 0.065 | 0.065 | 0.059 | 0.068 | 0.045 |
| Cadmium, mg/l | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Chromium, mg/l | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 |

Table II-9 (continued)

LOG NO: T2-01037
Revised 06.03.92
Received: 13 MAY 92Mr. James P. Oliveros
Missimer & Associates, Inc.
8130 Bay Meadows Way, West, Suite 104
Jacksonville, FL 32256

Purchase Order: 591-553

Project: Durabond/JE1-591
Sampled By: Client

REPORT OF RESULTS

Page 3

| LOG NO | SAMPLE DESCRIPTION , LIQUID SAMPLES | | | | DATE SAMPLED |
|----------------|-------------------------------------|----------|----------|----------|--------------|
| 01037-1 | MW-1 | | | | 05-12-92 |
| 01037-2 | SW-1 | | | | 05-12-92 |
| 01037-3 | MW-4 | | | | 05-12-92 |
| 01037-4 | MW-5 | | | | 05-12-92 |
| 01037-5 | MW-6 | | | | 05-12-92 |
| PARAMETER | 01037-1 | 01037-2 | 01037-3 | 01037-4 | 01037-5 |
| Lead, mg/l | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| Mercury, mg/l | <0.00020 | <0.00020 | <0.00020 | <0.00020 | <0.00020 |
| Selenium, mg/l | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 |
| Silver, mg/l | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 |

Figur II-8

Map Showing Location of Four Tanks Sampled
and Their Respective Soil Boring Numbers
(Reference 99)

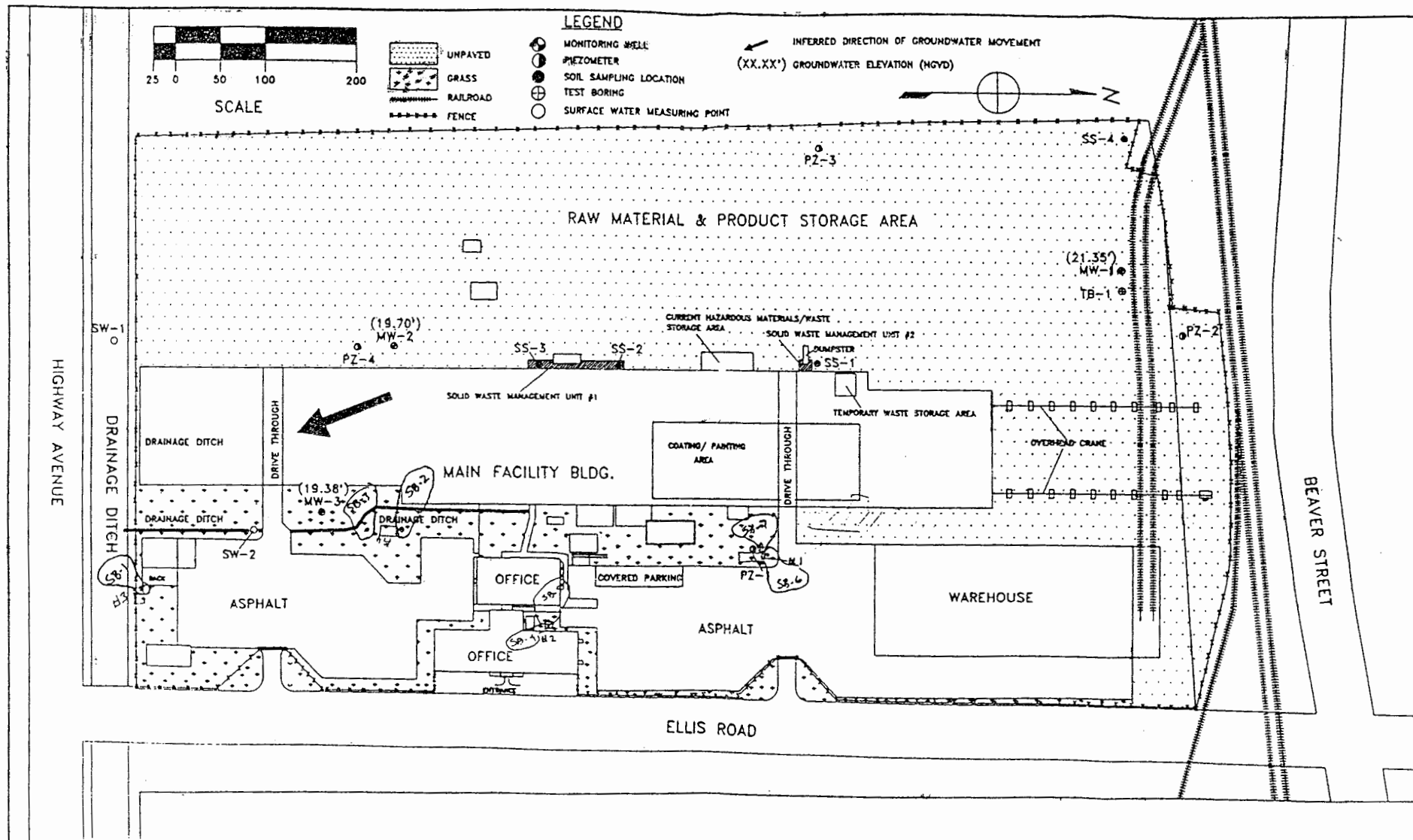


Table II-10

**Field Log Book Including OVA Analysis
of Soil Surrounding the Four Underground
and Aboveground Storage Tanks**

Table II-10
Field Log Book Including OVA Analysis of
Soil Surrounding the Four Underground and Aboveground
Storage Tanks (Reference 99)

| 11/23/92 DURABOND JET-500 | | 6/21/92 DURABOND JET-500 | | | | | | | |
|---------------------------|--|--------------------------|-------|------|---------|---------------|--------|-------|---|
| | | SAMPLE | DEPTH | TIME | AMBIENT | W/O FILTER | FILTER | TOTAL | |
| 0800 | DEPARTED MIA FOR DURABOND. | SB-1 | 1' | 0850 | 1/- | 1 | - | 0 | |
| | CALIBRATION CHECKED ON OVA-FID | SB-1 | 2' | 0928 | | 2 | - | 1 | |
| | 12B. PRIOR TO DEPARTURE. | SB-1 | 3' | 0857 | 0/0 | 10 | 6 | 4 | |
| 0820 | ARRIVED DURABOND. | SB-1 | 4' | 0929 | | 50 | 45 | 5 | |
| | BEGAN SOIL BRINGS FOR TANK LOCATION | SB-1 | 5' | 0903 | 0/0 | 33 | 22 | 11 | |
| | #3 | SB-1 | 6' | 0930 | | 43 | 15 | 28 | |
| 0835 | EQUIPMENT. HAND AUGER AND | SB-2 | 2' | 0907 | 0/- | 0 | - | 0 | |
| | MASON JARS DECON'D WITH | SB-2 | 4' | 0931 | | 0 | - | 0 | |
| | LIGUINOX AND DISTILLED WATER | SB-4 | 2' | 1005 | 0/0 | 71000 | 810 | 190 | W |
| | SOLUTION. BEGAN SOIL BRINGS. | SB-4 | 4' | 1040 | | 71000 | 71000 | 14200 | |
| 0922 | COMPLETED SB-1 TO 6 FEET. | SB-5 | 2' | 1041 | 0/0 | 60 | 96 | 36 | |
| | SOIL FROM SURFACE TO 4.5' IS | SB-6 | 2.5' | 1135 | | 0 | 0 | 0 | |
| | GREEN AND BROWN ^{SANDY} CLAY WITH RED | SB-7 | 2' | 1215 | 0/0 | 20 | 10 | 10 | |
| | STREAKS. FROM 4.5' TO 6' CLAYEY | SB-7 | 4' | 1143 | | 28 | 18 | 10 | |
| | SAND FINE PARTICLES. AROUND 6' | | | 1207 | | | | | |
| | SOIL IS DAMP BUT NOT SATURATED. | | | 1224 | | | | | |
| 0940 | SOIL FROM SB-1 MOSTLY UPPER | | | 1235 | | | | | |
| | LAYERS HAVE ORGANIC ODOR. 5' - 6' | | | 1300 | | | | | |
| | LAYER HAS SLIGHT ODOR OTHER THAN | | | | | | | | |
| | NATURAL ODOR BUT <u>NOT</u> HYD. CARB. ODOR. | | | | | | | | |
| | BEGAN DECONING EQUIP. | | | | | | | | |
| 0957 | BEGAN SB-2. IN AREA OF TANK #1. | | | | | | | | |
| 0944 | EQUIP DECON'D BEGAN SB-3 IN AREA | | | | | | | | |
| | OF TANK #4. LINDA ARRIVED ON SITE | | | | | | | | |
| | 1025. | | | | | | | | |

6/23/92 DURAPOND JET-S60

1106 SB-3 NO SAMPLE. ABOVEGROUND TANK #4 HAS CONCRETE ON 2 SIDES AND DAMP SOIL FROM DRAINAGE DITCH ON SIDE NEAREST WAREHOUSE. NORTH SIDE OF TANK AREA #4 IS WHERE SB-2 WAS TAKEN. SOUTH OF TANK AREA #4 IS A CONCRETE PAD WITH A SQUARE HOLE OUT OF WHICH THERE IS PIPING THAT MAY BE ASSOCIATED WITH THE FORMER TANK. A BORING WAS ATTEMPTED INSIDE THE HOLE BUT THE BORING WAS OBSTRUCTED. THE TOP SOIL IS DAMP AND HAS HYD. CARB. ODOR. SEVERAL FEET SOUTH OF THE TANK AREA #4 THERE IS A GAP IN THE CONCRETE. SB-3 WAS ATTEMPTED AT THIS LOCATION. HERE THE HOLE WAS OBSTRUCTED BY A BLACK TAR LIKE SUBSTANCE. AT THIS POINT ATTEMPTS AT SB-3 IN THE AREA OF TANK #4 WERE STOPPED.

1112 AREA (DECON) PICKED UP AND PREPARATION FOR DEPARTURE TO NORTH SIDE OF PROPERTY BEGAN.

1120 PREPARED FOR SB-4 AND SB-5 ON TANK AREA #2.

6/23/92 DURABOND JET-S60

1152 SB-4 AND SB-5 COMPLETE. SOIL AT SURFACE NEAR SATURATION. SB-5 SATURATED AT 2'. SB-4 VERY STRONG HYD. CARB. ODOR. SB-4 SATURATED AT 3'.

1155 BEGAN SB-6 AND SB-7 IN TANK AREA #1.

1210 SB-6 SOIL SATURATED AT 2.5' SB-6 COMPLETE

SB-7 ONE SAMPLE TAKEN AT 2' FILTER CARTRIDGE CHANGED AT SB-5

1225 SAMPLE TAKEN OF METAL DUST. WHILE IN AREA FOR SAMPLE COLLECTION SOME KIND OF BLOWER CAME ON AND BLEW DUST OUT OF SHAFT. SAMPLE WAS GRABBED FROM TOP OF PILE.

1315 SAMPLING COMPLETE DEPARTED SITE.

1400 ARRIVED M3A

implementation of the closure plan which Dura-Bond outlined in its Closure Permit Application, a "risk-based" clean closure plan will be developed and implemented with FDER's approval. However, contingency closure plans will be implemented if "risk-based" clean closure cannot be achieved. Post-closure actions will be determined based on any contingent post-closure measures that are implemented (Reference 92).

4. Air and NPDES Permits

On July 29, 1991, the Department of Health, Welfare & Bio-Environmental Services in Jacksonville issued Dura-Bond a Cease and Desist Citation in response to the January 1991 site inspection. The citation stated that Dura-Bond violated Florida Administrative Code (FAC) Chapter 17-2 and Jacksonville Environmental Protection Board (JEPB) Rule 2 for operating the Wheelabrator® machine, and its coating and open air sandblasting processes without valid FDER Air Pollution Source Construction or Operation Permits. Jacksonville's Air Quality Division (AQD) had determined that Dura-Bond had exceeded the Reasonably Available Control Technology (RACT) emission limiting standards for VOCs when coatings that contained greater than 3.5 pounds per gallon of VOCs were used in the coating process for tanks. In addition Dura-Bond had failed to obtain an appropriate permit from FDER before constructing, modifying, or operating these process units (Reference 53). In response to this citation, Dura-Bond instructed its employees not to order any paint with VOCs in excess of 3.5 pounds per gallon (References 54 and 69).

Dura-Bond submitted an application to FDER for an operating permit for its sandblasting and coating/painting processes on July 31, 1991 (Reference 56). Dura-Bond submitted an Air Pollution Source Construction Permit application to the Jacksonville Department of Health, Welfare & Bio-Environmental Services on August 5, 1991 (Reference 59).

On August 23, 1991 Jacksonville's Air Resources Division (ARD) notified Dura-Bond that it would draft a Consent Order for settlement of the citation enforcement case (Reference 60). FDER published its intent to issue an air construction permit for the Dura-Bond facility on October 9, 1991 (Reference 67). Because of AQD's determination that Dura-Bond had exceeded RACT emission standards for VOCs in its coating operations, the AQD proposal for the settlement of the violations for emitting airborne pollutants without a permit and exceeding RACT standards was incorporated into the Consent Order (Reference 69). Dura-Bond was notified of the Department of Environmental Regulation's intent to issue an air construction permit (AC16-200544) for the existing spray painting and blasting operations at its facility on October 7, 1991 (Reference 67).

The Consent Order was entered into between Dura-Bond and the City of Jacksonville on November 12, 1991, and the Environmental Protection Board of Jacksonville adopted this agreement on the same day (Reference 75). In this document, Dura-Bond agreed to not use coating materials which exceeded 3.5 pounds of VOCs per gallon (minus water) (Reference 74). The permit (AC16-20054) for Dura-Bond to construct air emission controls for its shot blasting and spray painting areas was issued on November 27, 1991 and expired on February 29, 1992 (Reference 78).

A Certificate of Completion of Construction was issued by FDER on January 24, 1992 for the operations previously approved (Reference 82).

Permit A016-207948 for Dura-Bond's spray painting and blasting operations was issued by FDER on April 17, 1992 (to expire on March 31, 1997). This permit outlined standards, test methods, and schedules for Visible Emissions (VE) and VOCs (Reference 91).

5. Underground Storage Tanks

A City of Jacksonville inspection of the Dura-Bond facility on July 24, 1989 noted several violations of underground storage tank regulations. The four Underground and Aboveground Storage Tanks (AOC B) were cited as being abandoned without any notification to FDER. Dura-Bond had also failed to maintain a current registration placard, invoices, inventory records, and maintenance exam records for the tanks. In addition, the excavation area had not been backfilled and there was no monitoring system in place for those areas. During a tank inspection by the City of Jacksonville on April 10, 1990, a representative of Dura-Bond produced a storage tank notification form and an invoice for the removal of the underground storage tanks (Reference 13). A map showing the locations of four of the storage tanks is provided in Figure II-8 on page II-33.

F. Environmental and Demographic Setting

1. Meteorology

The climate of Duval County is characterized by long, warm, humid summers and mild winters. Temperatures range from an average low of 54.6°F in January to an average high of 81°F in July and August. The average annual temperature is 68.4°F (Reference 1).

The wettest months occur during the summer (June through October). On average, approximately 65 percent of the annual total rainfall occurs during these months, with a monthly average rainfall of 6.78 inches. The remaining 35 percent of the yearly precipitation is evenly distributed throughout the year. The driest months occur in the fall (November and December), with a

monthly rainfall average of 2.19 inches. The average annual precipitation is 54.47 inches (Reference 1).

Wind flow patterns in the area are controlled by seasonal changes. Northeasterly winds prevail during the fall and winter months, whereas the spring and summer months are characterized by southwesterly winds (References 92, 1).

The property is located within an area which has been designated as not meeting ambient air quality standards for ozone. It is, however, located within an area designated as an air quality maintenance area for pollutant particulate matter (Reference 74).

2. Floodplain, Surface Waters, and Drainage

The area surrounding the Dura-Bond facility is characterized by little topographic variation. Elevations on the plant property range from approximately 20 feet above mean sea level to approximately 25 feet above mean sea level (Reference 92).

A small area along the western boundary of the Dura-Bond property lies within the 100-year floodplain area. However, all of the SWMUs and most of the industrial features and operations at the site are located outside of the 100-year floodplain limit (Reference 92). A map showing the 100-year floodplain contours is provided in Figure II-9.

Surface water runoff within the property boundaries flows to the west-southwest. A Drainage Ditch (SWMU 19) runs from the northern end of the property - beginning between the main facility building and the north warehouse - to the southern site boundary and discharges through culverts into the Highway Avenue drainage ditch. Runoff from both sides of the ditch is received by the drainage ditch. The Highway Avenue drainage ditch runs from east to west along the southern site boundary, on the north side of Highway Avenue (Reference 92). It eventually discharges to the Cedar River. The Cedar River flows in a southerly direction and joins the Ortega River which empties into the St. Johns River.

Due to the presence of a seepage face along the northern edge of the Highway Avenue drainage ditch, shallow ground water beneath the facility discharges to the ditch, according to Dura-Bond's Closure Permit Application (Reference 92). Given the proximity of the Paint Cans Excavation Area (SWMU 12) to the northern edge of the ditch, there is a high likelihood that contamination from the paint cans may have entered the ditch.

Surface runoff on either side of the main facility building also discharges to the Storm Water System (SWMU 18). One storm water grate is located in the southwest corner of the property near the Covered Soil Pile (SWMU 13), the Uncovered Soil Pile (SWMU 14),

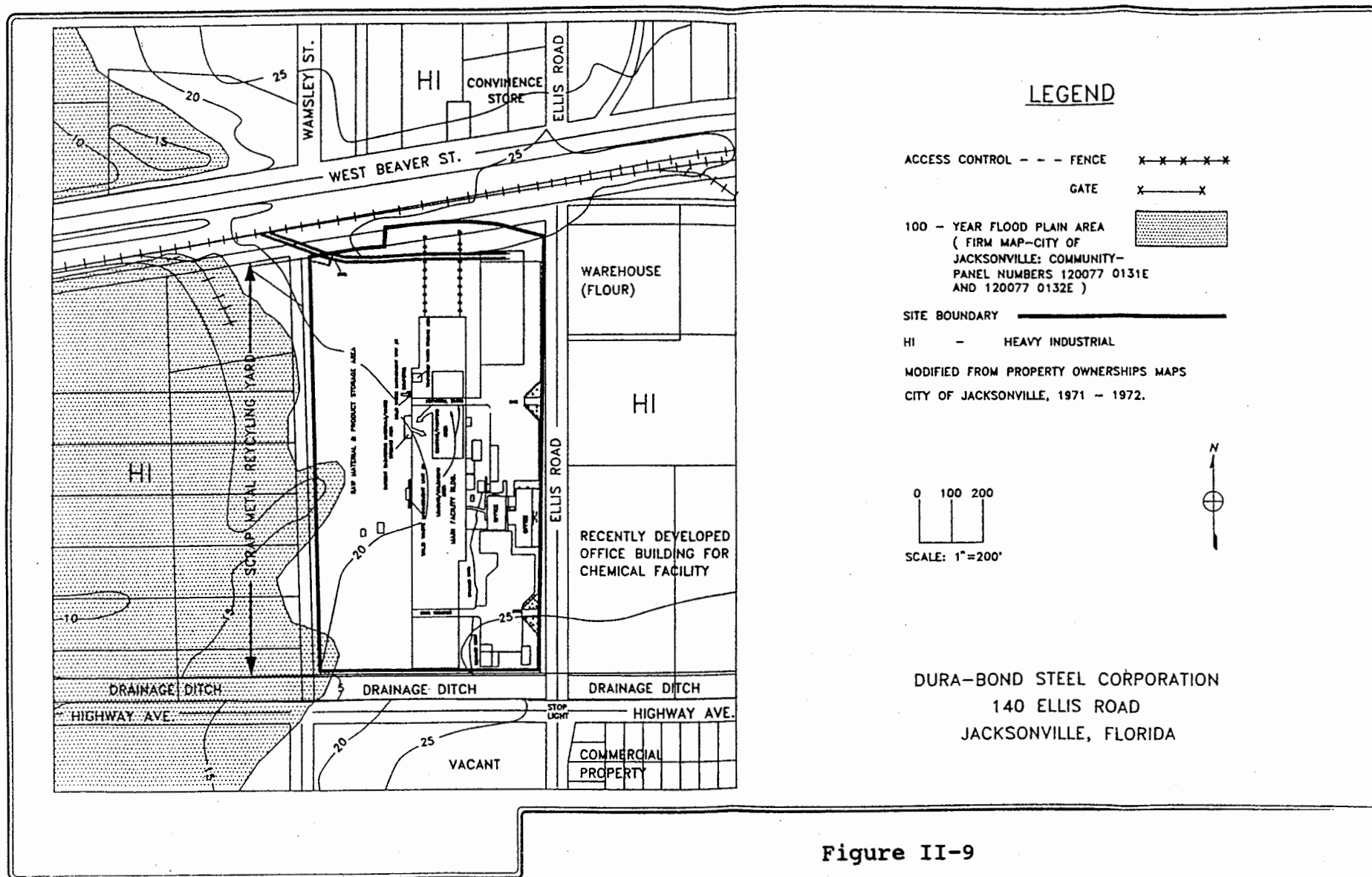


Figure II-9

100-Year Floodplain Area
(Reference 92)

and the Construction Debris Pile (SWMU 17). At the time of the VSI, there was evidence of runoff from the vicinity of the piles to this drain. A second grate is located approximately 30 feet south and 10 feet west of the Hazardous Materials/Waste Storage Area (SWMU 4). This grate appeared to have been added very recently. A third drain is located on the east side of the main facility building near the western edge of the south parking area. This storm water drain was clogged at the time of the VSI (Reference 100).

3. Soils and Geology

The Dura-Bond Steel Corporation facility is located on Urban land. In Duval County, Pelham and Mascotte soils may occur in a complex with Urban land. These areas consist of nearly level, poorly drained soils that are sandy to a depth of 20 inches or more and loamy below (Reference 1).

Pelham soils are nearly level and poorly drained. These soils typically have a surface layer of very dark gray loamy fine sand and a subsurface layer of light gray fine sand. The subsoil is light brownish gray fine sandy loam and sandy clay loam that begins at a depth of approximately 21 inches and extends to a depth of 69 inches or more. Under natural conditions, the water table is at a depth of less than 10 inches for 2 to 4 months and at a depth of 10 to 30 inches for 4 to 12 months during most years (Reference 1).

Mascotte soils are also nearly level and poorly drained. They typically have a surface layer of black fine sand and a subsurface layer of gray and light brownish gray fine sand. A layer of black, weakly cemented loamy fine sand occurs at a depth of approximately 15 inches. A layer of sandy clay loam occurs at a depth of approximately 28 inches and extends to a depth of approximately 58 inches. Below this is gray fine sand that extends to a depth of 80 inches or more. Under natural conditions, the water table is at a depth of less than 10 inches for 2 to 4 months out of the year and at a depth of 10 to 30 inches for 2 to 8 months during most years (Reference 1).

The Hawthorne Group is of middle Miocene age and is composed of gray to blue-gray calcareous, phosphatic sandy clays and clayey sands interbedded with thin, discontinuous lenses of fine to medium-grained phosphatic sandy limestone and gray, hard dolomite. The dolomite and limestone lenses are more prevalent near the Group base. The thickness of the Hawthorne Group ranges from approximately 250 feet in southern portions of the county to approximately 500 feet in the north-central portions. The Hawthorne Group acts as a confining unit of relatively impermeable clay, sandy clay, and dolomite beds that separates the shallow aquifer system from the Floridan system (Reference

92). Figure II-10 shows the lithostratigraphic units of the Hawthorne Group typical of the Duval County area. The upper Miocene and Pliocene deposits are composed of sand, shell, sandy clay, and limestone. The sediments contain less phosphate than the Hawthorne Group and are a light gray or buff color. The upper portions of the deposits consist of clayey sand and sandy clay. The middle section contains sandy clay and shell, while the lower portion contains interbedded sandy clay, clay, and porous bioclastic limestone. The thickness of the upper Miocene and Pliocene sediments range from approximately 10 feet in the extreme southwest area of Duval County to approximately 130 feet in the west-central county areas (Reference 92).

The uppermost sediments, consisting of Pleistocene and Recent deposits cover all of Duval County. These sediments are tan to yellow medium to fine-grained loose sands, and gray to green clayey sands. The deposits locally contain thin gray sandy clay beds, which, in some areas, contain mollusk shells (Reference 92).

4. Ground Water

Two principal aquifer systems are present under Duval County. The Floridan Aquifer represents a major source of ground water in the area. This aquifer is underlain by a confining bed and is overlain, throughout most of Florida, by the intermediate aquifer system. It is predominantly comprised of limestones, dolomites, and limestone-dolomite mixtures. Throughout most of the state, the quality of water in the upper portion of this aquifer is excellent (References 92, 98). Figure II-11 shows the ground water systems for the state of Florida.

The shallow aquifer system also underlies northeast Florida. It is comprised of sands, limestones, and dolomites. This system is used locally as a source of ground water. A third aquifer, the aquiclude, yields small to moderate amounts of ground water in Duval County (References 92, 98). Table II-11 shows the stratigraphic units and aquifer systems in Duval County.

The following formations comprise the Shallow aquifer system, in ascending order: the Hawthorne Group (middle Miocene), upper Miocene or Pliocene deposits, and Pleistocene and Holocene deposits (Reference 92).

The ground water in the uppermost levels of the shallow aquifer generally occurs under water table conditions. Layers of clay in the deeper parts of the aquifer can act as localized confining units. Because of the variations in lithology in the shallow aquifer system, the hydraulic properties of the system vary and local aquifers and confining units are discontinuous. The aquifer may consist of a single, relatively thick aquifer under

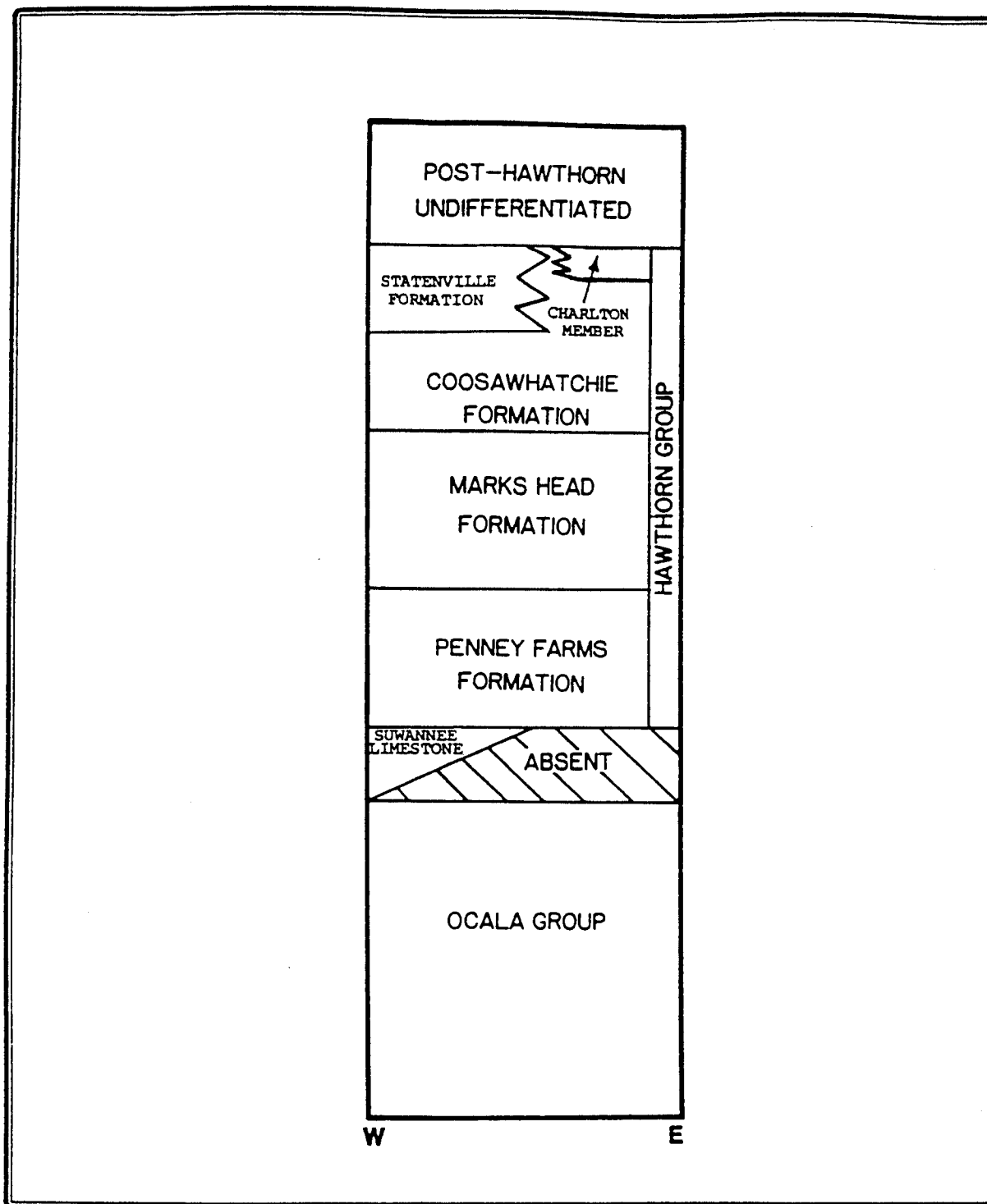
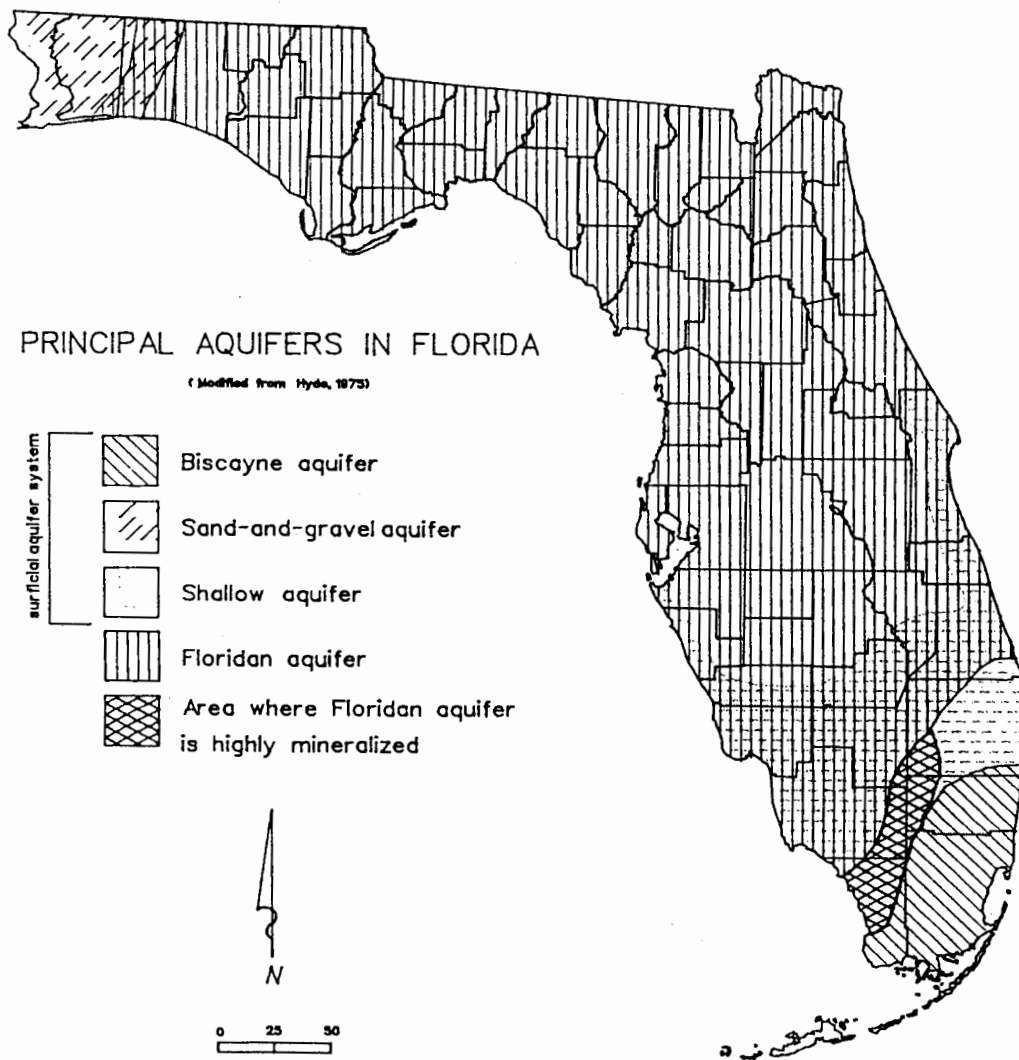


Figure II-10
 Lithostratigraphic Units of the
 Hawthorne Group in North Florida
 (Reference 92)

Figure II-11

Principal Aquifers in Florida
(Reference 98)



Stratigraphic Units and Aquifer Systems in Duval County (Reference 92)

| Geologic age | Stratigraphic unit | App. thickness (ft.) | Lithologic character | Aquifer systems | Water-bearing properties |
|------------------------|---------------------------------------|----------------------|---|-------------------------|--|
| Recent and Pleistocene | Recent Pleistocene deposits | 0-150 | Soil, muck, coarse to fine sand, shell and some clayey sand | Shallow aquifer system | Surficial sand yields small amounts of water. Sand and shell bed along coast yields moderate quantities. |
| Pliocene? | Pliocene or Upper Miocene deposits | 20-110 | Gray-green calcareous, silty clay and clayey sand; contains shell beds and white soft, friable limestone beds | | Limestone, sand, and shell bed near base of deposits yields moderate to (locally) large amounts. |
| Miocene | Hawthorn Formation | 260-490 | Gray to blue-green calcareous phosphatic, sandy clays and clayey sands; contains fine to medium phosphatic sand lenses and limestone and dolomite beds, particularly near the base of the formation | Aquiclude | Relatively impermeable clays and sands in both the late Miocene or Pliocene deposits and the Hawthorn Formation confines the artesian water in the Eocene limestone and in the limestone and shell beds above the Eocene limestone. Yields small to moderate supplies. |
| Eocene | Crystal River Formation (Ocala Group) | 50-300 | White to cream chalk, massive fossiliferous marine limestone | Floridan Aquifer System | Marine limestone formations utilized as the primary source of water in the area. |
| | Williston Formation (Ocala Group) | 20-100 | Tan to buff granular, marine limestone | | |
| | Inglis Formation (Ocala Group) | 40-120 | Tan to buff granular, calcitic, marine limestone; contains thin dolomite lenses and zones of <i>Mitolidae</i> foraminiferal coquina | | Massive dolomite beds restrict vertical movement of water. (Part of the Aquiclude Aquifer system) |
| | Avon Park Limestone | 50-250 | Alternating beds of brown to tan hard, massive dolomite, brown fine crystalline dolomite, and granular calcitic limestone | | |
| | Lake City Limestone | 425-500+ | White to brown, purple-tinted lignitic, granular limestone and gray hard, massive dolomite; contains lignite beds and zones of <i>Vivulinidae</i> foraminiferal coquina | | Limestone and porous dolomite beds yield large to very large quantities of water. Hard dolomite and limestone beds restrict vertical movement of water within certain zones. Potentially the greatest source of water in the area. |
| | Oldsmar Limestone | 846 | Cream to brown massive to chalky, granular limestone and tan to brown massive to finely crystalline dolomite | | |

water table conditions in western parts of the county, while in central and eastern parts of the county, it may consist of several thin permeable zones separated locally by thin confining units. The water table gradient and direction of ground-water movement is generally controlled by topography and surface water patterns (Reference 92).

Water from the shallow aquifer, which serves as a supply for many users, is drawn to the surface by wells 40 feet to 150 feet deep. Figure II-12 is a map of Duval County showing the potentiometric surface of the shallow aquifer system and the area of flow in May 1969. According to the facility's soil sampling and analysis plan, the ground-water level is estimated to be eight to ten feet below the surface of the site (References 92, 37).

The uppermost sediments of the Floridan aquifer system were deposited during the formation of marine terraces and beach ridges. They are comprised of Pleistocene and Recent deposits and cover all of Duval County. The sediments are primarily tan to yellow medium-to-fine-grained loose sands and gray to green clayey sands. Local deposits consist of gray sandy clay beds which contain mollusk shells in some places (Reference 92). Figure II-13 shows these sediments overlaying the Ocala Limestone of the Floridan Aquifer.

The Floridan Aquifer system underlies the Hawthorne Group and is comprised of the Ocala Group, the Avon Park Limestone, and the Lake City Limestone. These are all of Eocene age. The units are hydraulically connected with limestone of the lower Hawthorne formation. The Ocala Group is composed of permeable hydraulically connected marine limestone beds that contain few hard dolomite or limestone beds to restrict the vertical movement of water. The Avon Park Limestone is composed almost wholly of hard, relatively impermeable dolomite beds that restrict the vertical movement of water between the underling and overlying permeable zones. The Lake City Limestone and Oldsmar Limestone contain alternating hard, relatively impermeable dolomite confining beds and soft, permeable limestone water-bearing zones (Reference 92). The Oldsmar Limestone generally yields saline water and is not considered part of the Floridan system. Variations in the top of the Floridan Aquifer near Jacksonville are depicted in Figure II-14.

Dura-Bond is located on the Pamlico Marine Terrace which ranges from 5 to 25 feet above NGVD. The subsurface lithologies at the site were determined from split-spoon samples collected from two test borings and borings completed during the installation of monitoring wells MW-1 through MW-7. Figure II-15 shows the lithologic sections from the two test borings. The lithologies for the MW-1 through MW-7 boreholes are composed of interbedded layers of clayey sand, sandy clay, and clay. From a depth of

Figure II-12

Map of Duval County Showing the Potentiometric Surface
of the Shallow Aquifer System and the Area of Flow in May 1969
(Reference 92)

II-45

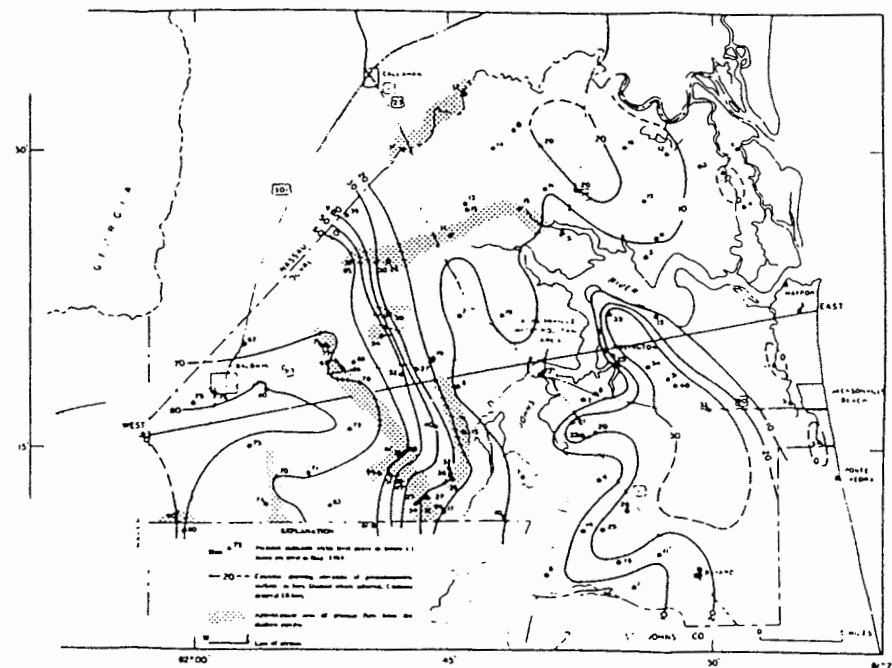
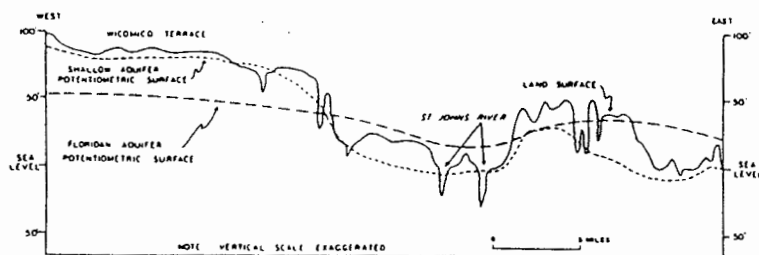


Figure II-13

Map of Duval County Showing the Sediments
Overlaying the Ocala Limestone of the Florida Aquifer
(Reference 92)

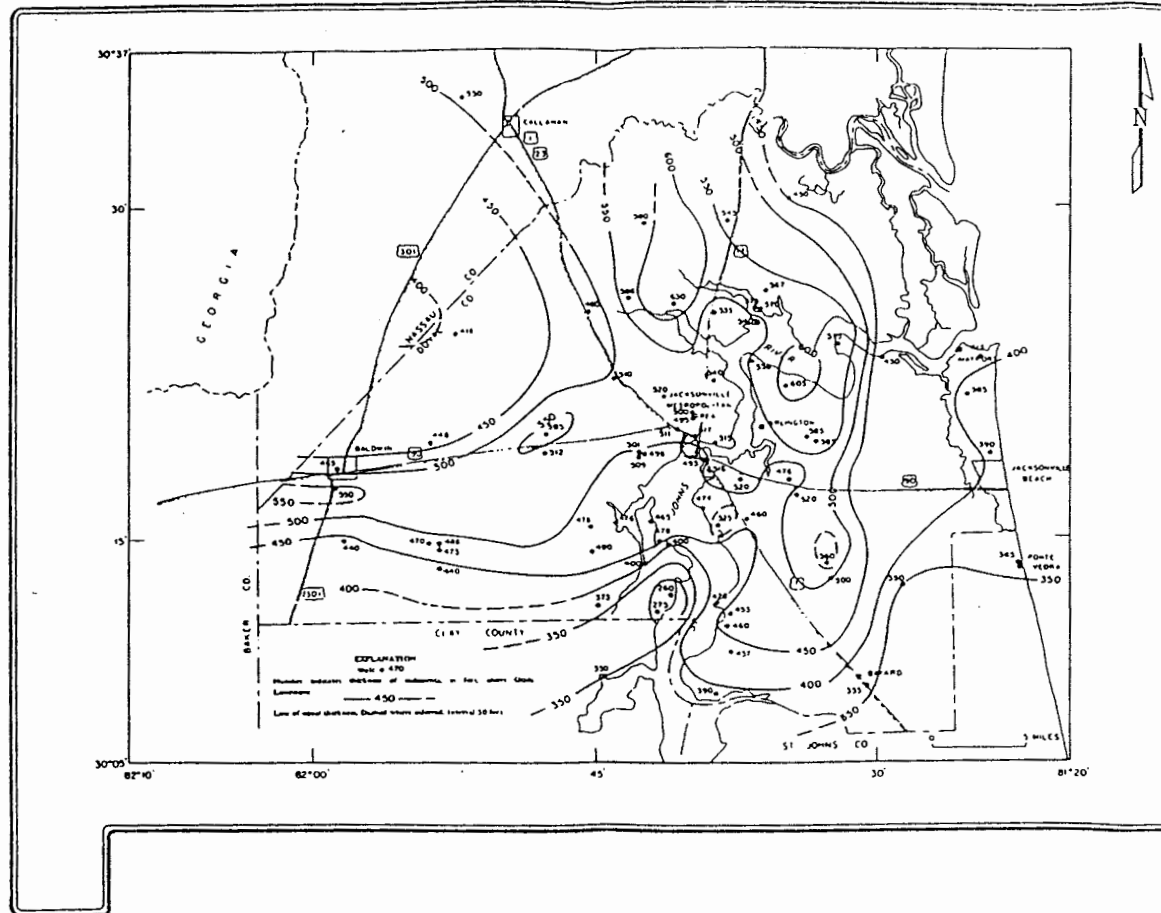


Figure II-14

Top of Floridan Aquifer in Northeast Florida
(Reference 92)

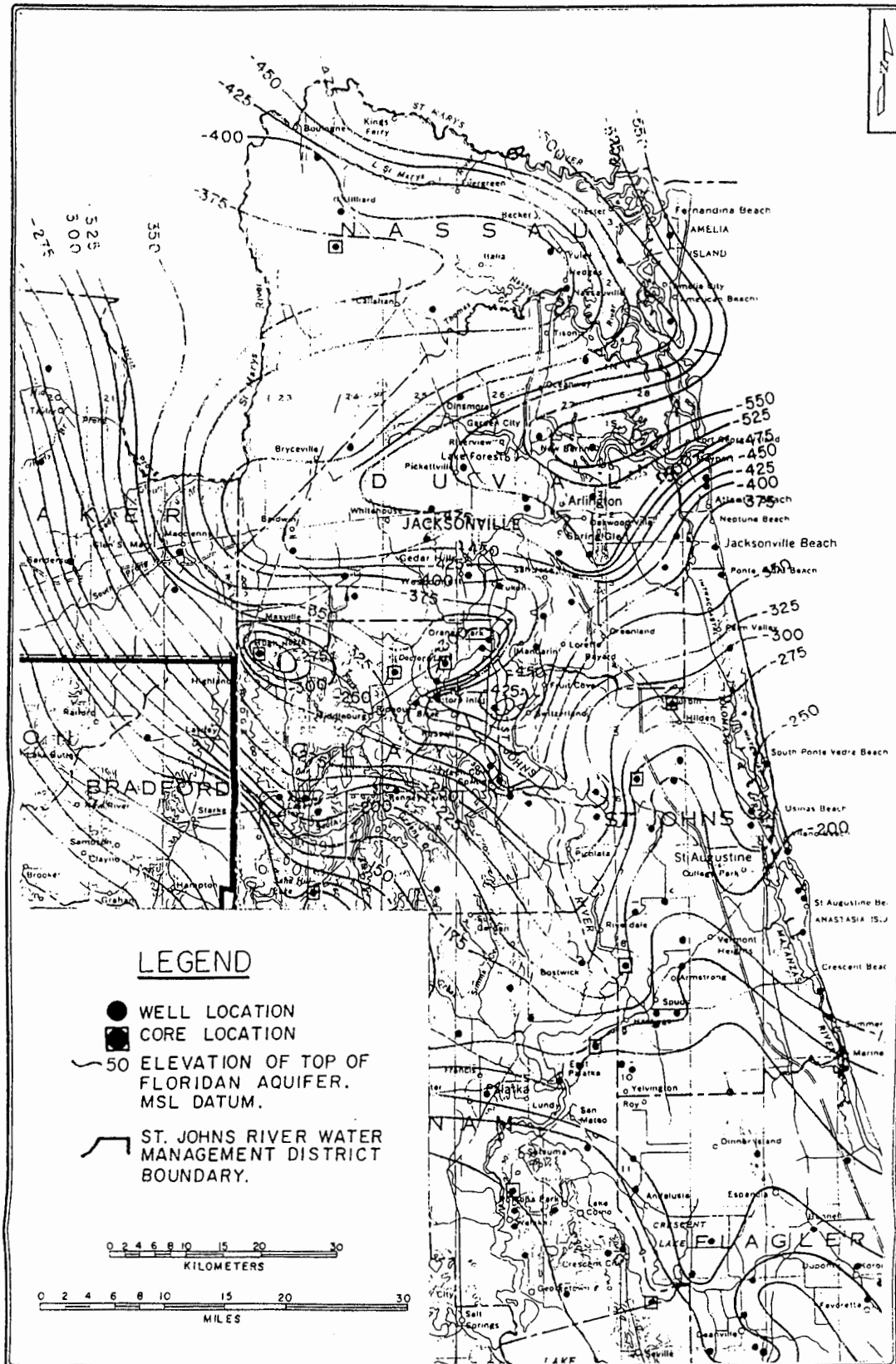
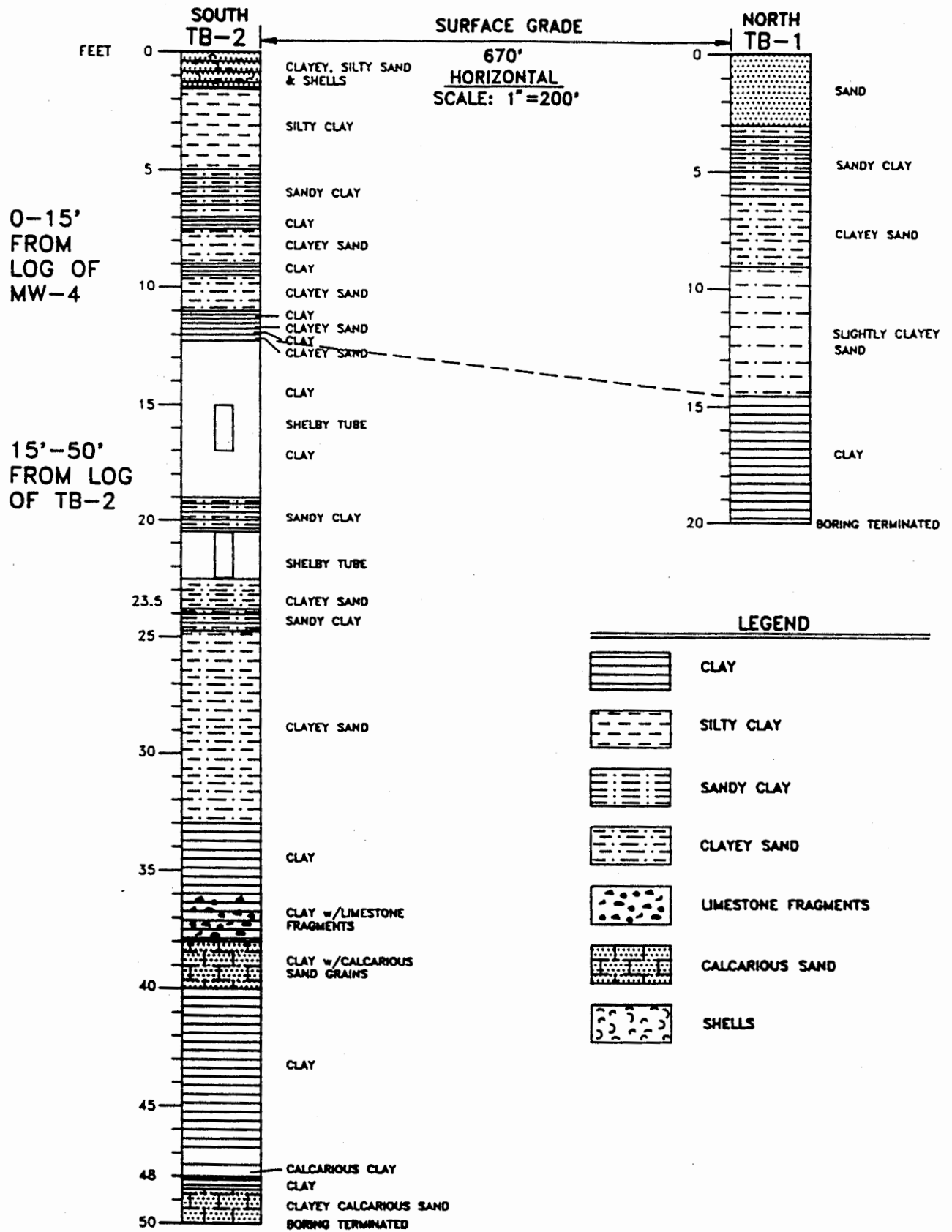


Figure II-15

Lithologic Sections from Two Test Borings
(Reference 92)



approximately 14 feet below land surface (bls) to 20 feet bls, the borings encountered a layer of dense, plastic green clay. The dense clay is continuous across the site at a depth of approximately 12 to 15 feet, according to Missimer & Associates, who conducted the tests and sampling. Ground-water elevation at the site was measured in piezometers PZ-1 and PZ-2 and ground-water wells MW-1 through MW-3. These indicated that shallow ground-water flows to the south-southeast (Reference 92).

Figure II-16 shows the ground-water elevations and direction of ground-water flow at the site, as determined on June 27, 1991. Figure II-17 shows the ground-water elevations and direction of ground-water flow at the site, as determined on July 8, 1991. Ground water elevation contours calculated in January 1992, and April 1992 are shown in Figure II-18 and Figure II-19, respectively. The average hydraulic conductivity measured in wells MW-3, MW-4, MW-5, and MW-7 was found to be 0.38 foot/day. Analyses of the dense, plastic green clay indicated that the layer is relatively impermeable and acts as a confining unit at the site. Due to the presence of a seepage face along the northern edge of the Highway Avenue drainage ditch, shallow ground water beneath the facility discharges to the ditch, according to Dura-Bond's Closure Permit Application (Reference 92).

A former process well of unknown depth is located on the Dura-Bond facility. There are seven other ground-water wells within a quarter mile radius of the Dura-Bond property (Reference 99).

5. Receptors

Dura-Bond is located in an area zoned as Heavy Industrial. Neighboring facilities include an office building across the street and a scrap metal yard adjacent to the property to the west.

Receptors for the site include employees and nearby surface water bodies. Surface water runoff is collected in a Drainage Ditch (SWMU 19) which runs from the northern end of the facility near the Wheelabrator® Dust Collector (SWMU 5) and Sandblast Residue Fill Area (SWMU 8) to the southern fence line, along the east side of the main facility building. The ditch discharges through a double concrete culvert and double metal discharge pipe to the Highway Avenue drainage ditch. The water in this drainage ditch flows from east to west. It eventually discharges to the Cedar River which flows in a southerly direction and joins the Ortega River that empties into the St. Johns River.

Due to the presence of a seepage face along the northern edge of the Highway Avenue drainage ditch, shallow ground water beneath the facility discharges to the ditch, according to Dura-Bond's

Figure II-16

Ground Water Elevations (in feet above NGVD) and
Direction of Ground-Water Movement
June 27, 1991 (Reference 92)

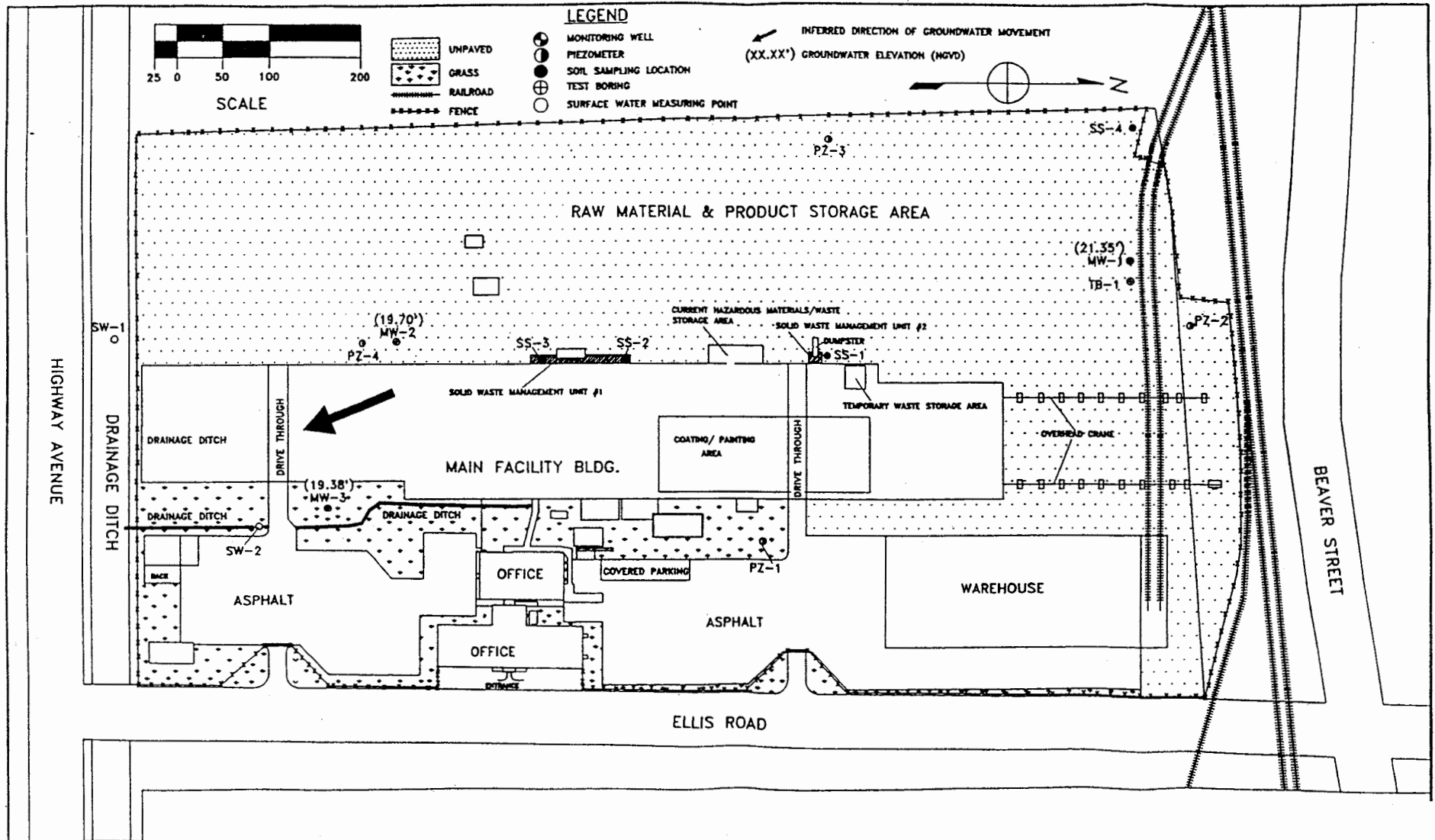


Figure II-17

Ground-Water Elevations (in feet above NGVD) and
Direction of Ground-Water Movement
July 8, 1991 (Reference 92)

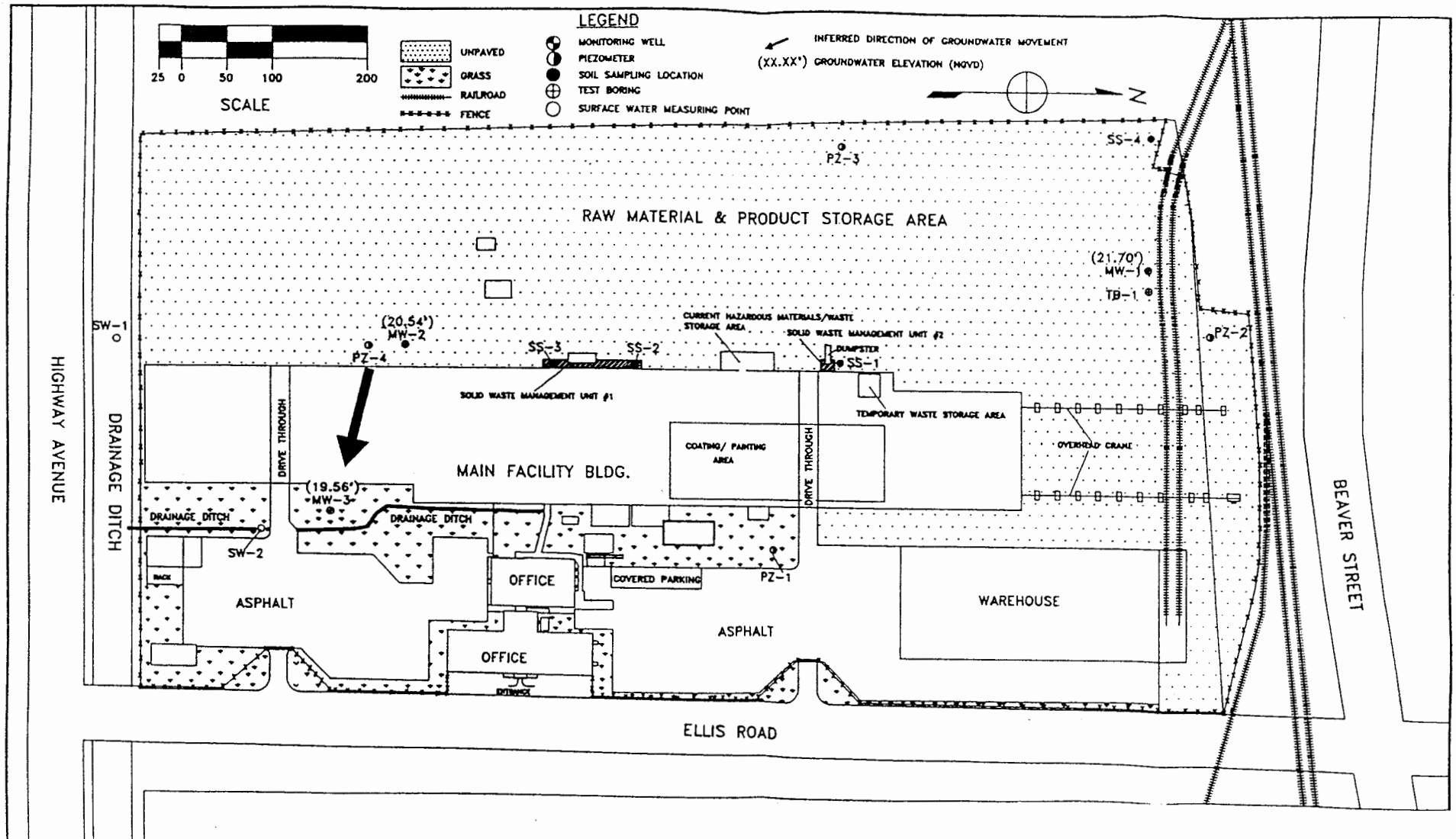
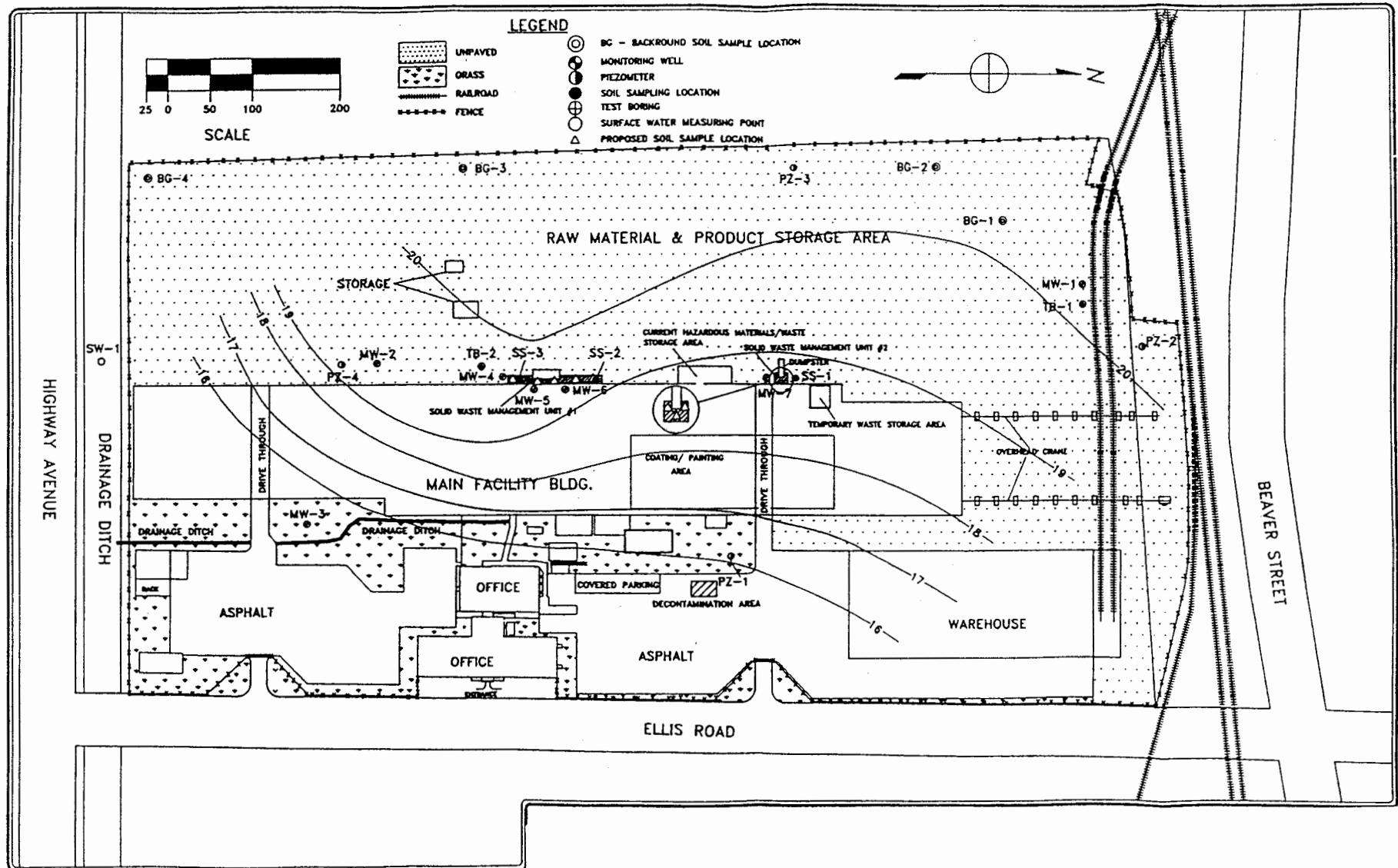


Figure II-18

Ground-Water Elevation Contours
January 16, 1992 (Reference 92)



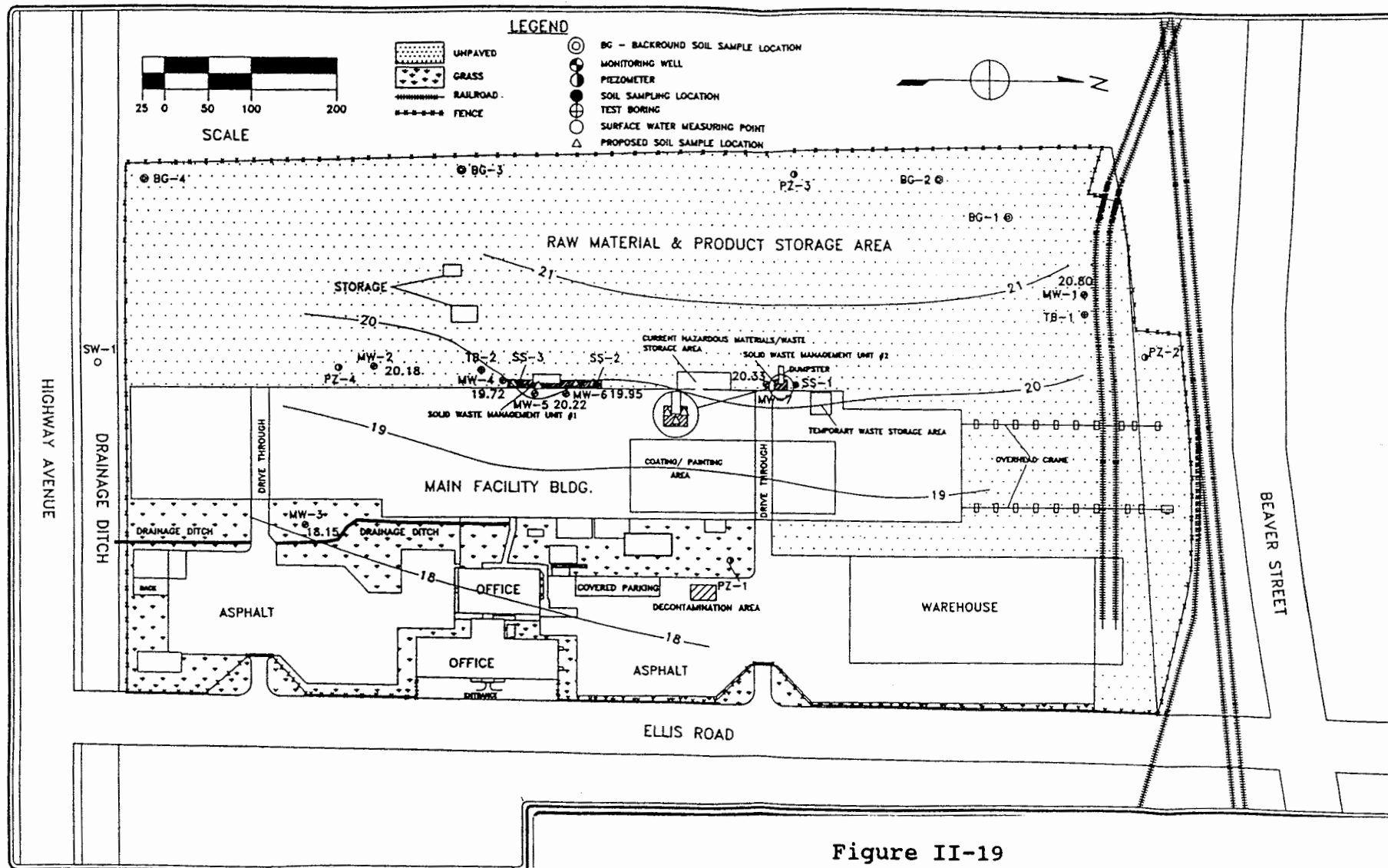


Figure II-19

Ground-Water Elevation Contours
April 16, 1992 (Reference 92)

Closure Permit Application (Reference 92). Given the proximity of the Paint Cans Excavation Area (SWMU 12) to the northern edge of the ditch, there is a high likelihood that contamination from the paint cans may have entered the ditch.

III. SWMU AND AOC DESCRIPTIONS

This section presents descriptions of Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) identified during the PR and VSI of the Dura-Bond facility.

A SWMU and AOC map is provided in Appendix C. The following designations are used to designate release pathways:

| | |
|-------------|---|
| L (Low) | Minimal potential for release |
| M (Medium) | Moderate potential for release |
| H (High) | Evidence suggests that release(s) have occurred |
| U (Unknown) | No information is available |

The photograph numbers correspond to the numbering system of the Photographic Log provided in Appendices B and C. Appendix B contains photographs taken at the time of the VSI, and Appendix C presents photographs taken by FDER during a site inspection in October 1990. The roll number and photograph number of each photograph are provided at the end of each legend to cross-reference the Photographic Log to the VSI Log Book in which the sequence of photographs was recorded.

SWMU DATA SHEET

Page 1 of 3

SWMU NUMBER: 1

PHOTOGRAPH NUMBER: 1.1, 1.2, 1.3, 1.4
1.5, 1.6, 1.7, 1.8

NAME: Area Adjacent to West Side of Main Facility Building

TYPE OF UNIT: Land Treatment Unit

PERIOD OF OPERATION: 1987 to 1992

PHYSICAL DESCRIPTION AND CONDITION: This area was previously identified as a SWMU in a FDER warning notice, following a Hazardous Waste Facility Inspection in October 1990. This unit lies parallel to the main facility building on the western side, near a small storage building. It consists of an earthen area approximately 25 feet by 5 feet between the western wall of the main facility building and an adjacent corrugated metal storage shed which houses tanks of compressed oxygen and carbon dioxide. In several places along the western wall of the main facility building, there are openings in the corrugated metal walls through which workers allegedly emptied out their spray guns in a fine spray mist.

During the 1990 inspection, the soil between the two buildings was darkly stained and in many places the vegetation had been destroyed as seen in FDER photographs 1.5 through 1.10 in Appendix C.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: The unit received methyl ethyl ketone (MEK)/paint waste from the paint spray guns following coating and painting operations within the main building. The waste was characterized as F005. An analysis of the waste revealed constituent chemicals at the following levels: MEK, 360,000 mg/l; toluene, 14,000 mg/l; ethylbenzene, 6,600 mg/l; xylenes, 29,000 mg/l; barium, 33 mg/l; cadmium, 0.18 mg/l; chromium, 58 mg/l; and lead, 16 mg/l.

RELEASE PATHWAYS: Air (M) Surface Water (H) Soil (H)
Ground Water (H) Subsurface Gas (M)

HISTORY AND/OR EVIDENCE OF RELEASE(S): In several places along the western wall of the main facility building, there are openings in the corrugated metal walls through which workers allegedly emptied out their spray guns in a fine mist. The surrounding soil was stained, according to the FDER report.

SWMU DATA SHEET

Page 2 of 3

Soil sampling was preformed by RSDI Environmental, Inc. in February 1991. Two of the borings were located adjacent to the SWMU area. The samples were analyzed for MEK using EPA Method 8015. The concentration of MEK in the soil at the southern end of this unit ranged from 12.80 mg/kg to 18.20 mg/kg. The MEK concentration in the soil at the northern end of this area ranged from 17.30 mg/kg to 25.90 mg/kg.

Sampling was performed by Missimer & Associates, Inc. at two hydraulically downgradient wells on June 25, 1991. MW-2 is located near the western edge of the main facility building and MW-3 is located near the eastern edge of the building. The samples were analyzed for VOCs using EPA Method 8240, as well as the eight RCRA metals. Barium was detected at 0.11 mg/l in the sample from MW-2. Arsenic (0.029 mg/l), chromium (0.14 mg/l), and lead (0.72 mg/l) were detected in the sample from MW-3. The lead concentration exceeded the State of Florida Primary Drinking Water Standards MCLs for lead (0.05 mg/l). A sample taken on July 8, 1991 revealed arsenic (0.016 mg/l) and lead (0.045 mg/l) in the water. Filtered samples on June 25, 1991 at MW-2 indicated 0.11 mg/l barium. Filtered samples at MW-3 indicated 0.76 mg/l barium and 0.012 mg/l lead.

Further ground-water samples were taken immediately south of this area at MW-4 and in two locations within the main building at MW-5 and MW-6. These samples were taken on May 12, 1992. The results for all VOCs were also below detection limits. Except for barium, the results for all metals were below detection limits. Barium was detected at 0.059 mg/l, 0.068 mg/l, and 0.045 mg/l at MW-4, MW-5, and MW-6, respectively.

Soil samples were taken in two locations within this area in June 1991. SS-2 was taken from the northern end of the area and SS-3 from the southern end of the area. All VOCs were below detection limits at both borings. For metals, arsenic, chromium, and lead were detected in concentrations of 17 mg/kg, 2.9 mg/kg, and 3.3 mg/kg, respectively, at SS-2, and 34 mg/kg, 16 mg/kg and 82 mg/kg, respectively, at SS-3. Mercury was detected at 0.059 mg/kg at SS-3. Background concentrations determined in July 1991 in the far northwest corner of the facility indicated 18 mg/kg, 6.0 mg/kg, and 26 mg/kg, for arsenic, chromium, and lead, respectively. Background levels for mercury were not analyzed. A map showing the locations of the soil borings and monitoring wells is provided in Figure II-7 on page II-30.

SWMU DATA SHEET

Page 3 of 3

RECOMMENDATIONS:

No Further Action (*)
Confirmatory Sampling ()
RFI Necessary ()

REFERENCE(S):

20, 37, 39, 42, 92, 99, 100

COMMENTS:

* Following the soil sampling for this area in February 1991, results for MEK were below detection limits for subsequent ground-water and soil samples in the same area. The initial high concentrations of MEK in soil and the subsequent results for metals in soil and ground water warrant further investigation as to the extent and magnitude of contamination of the environmental media in this area.

No further action for this unit has been suggested because this unit is regulated by FDER.

Page 1 of 2

PHOTOGRAPH NUMBER: 2.1, 2.2, 2.3, 2.4, 2.5

PERIOD OF OPERATION: 1987 to 1992

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: This unit managed MEK waste contaminated rags. Approximately 1000 rags were generated and disposed of in the dumpster each month. FDER officials also noted the presence of approximately ten drums and numerous smaller containers in the vicinity of the dumpster.

HISTORY AND/OR EVIDENCE OF RELEASE(S): MEK/paint waste was allegedly discharged to the ground in an area immediately adjacent to the dumpster. FDER officials noted the presence of approximately ten drums and numerous smaller containers in the vicinity of the dumpster.

III-5

SWMU DATA SHEET

Page 2 of 2

the dumpster described above. The samples were analyzed for MEK using EPA SW846 Method 8015. The concentration of MEK in the soil ranged from 19.60 mg/kg to 19.70 mg/kg. Soil samples were taken at this unit in June 1991. SS-1 was taken from the northern end of the SWMU. All VOCs were below detection limits at both borings. For metals, arsenic, chromium, lead, and mercury were detected in concentrations of 15 mg/kg, 2.1 mg/kg, 6.4 mg/kg, and 0.017 mg/kg, respectively. Background concentrations determined in July 1991 in the far northwest corner of the facility indicated 18 mg/kg, 6.0 mg/kg, and 26 mg/kg, for arsenic, chromium, and lead, respectively. A map showing the locations of the soil borings and monitoring wells is provided in Figure II-7 on page II-30.

RECOMMENDATIONS: No Further Action (*)
 Confirmatory Sampling ()
 RFI Necessary ()

REFERENCE(S): 20, 37, 39, 42, 92, 99

COMMENTS: * Following the soil sampling at the dumpster area in February 1991, results for MEK were below detection limits for subsequent soil and ground-water samples in the same area. The initial high concentrations of MEK in soil and the subsequent results for arsenic, chromium, and lead, warrant further investigation as to the extent and magnitude of contamination of environmental media in this area.

No further action for this unit has been suggested because this unit is regulated by FDER.

SWMU DATA SHEET

Page 1 of 2

SWMU NUMBER: 3

PHOTOGRAPH NUMBER: 3.1, 3.2, 3.3

NAME: Temporary Waste Storage Area

TYPE OF UNIT: Drum Storage Area

PERIOD OF OPERATION: 1987 to 1992

PHYSICAL DESCRIPTION AND CONDITION: This unit was one of two areas near the main facility building which were designated as hazardous material storage areas in Dura-Bond's Closure Permit Application. This area is located to the north of the north driveway along the inside western wall of the main facility building. It consists of a 15 feet by 15 feet concrete pad which stored paint waste. The pad is lined with steel and surrounded by soil. The soil surrounding the pad was dark in color at the time of the VSI. Between 2 and 20 drums were stored at one time in this area. On average, three to five drums were stored on the pad at any one time, according to Dura-Bond officials. The storage pad now stores two welding machines. The October 1990 FDER hazardous waste inspection report stated that there were five 55-gallon drums of F005 waste MEK accumulating in this area at that time. However, eight drums can be seen in FDER photograph 3.3 in Appendix C. The surrounding oil was darkly stained where oil appears to have been discharged. Three drums were open and none were labeled with hazardous waste labels.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: The unit received drummed MEK/paint waste following coating and painting operations within the main building. The unit contained waste which was characterized as F003 and F005. An analysis of the waste revealed constituent chemicals at the following levels: MEK 360,000 mg/l; toluene, 14,000 mg/l; ethylbenzene, 6,600 mg/l; xylenes, 29,000 mg/l; barium, 33 mg/l; cadmium, 0.18 mg/l; chromium, 58 mg/l; and lead, 16 mg/l. Approximately one 55-gallon drum of epoxy and oil-based paint sludge was generated a month. Paint waste also included old paint that was not inventoried. According to Mr. Norris, drums which were filled with paint sludge were then shipped offsite for disposal through Chem Con. At the time of the VSI, two bags of Black Beauty™ were lying on the dirt floor. Both bags were broken and leaking this material to the surrounding area.

SWMU DATA SHEET

Page 2 of 2

RELEASE PATHWAYS: Air (L) Surface Water (M) Soil (M)
Ground Water (M) Subsurface Gas (U)

HISTORY AND/OR EVIDENCE OF RELEASE(S): No evidence of unpermitted releases was identified in the available file material. The spilled Black Beauty™ was observed during the VSI. However, the 1990 FDER report and photographs indicate that a dark oily substance appeared to have been spilled in this area.

RECOMMENDATIONS: No Further Action ()
Confirmatory Sampling (*)
RFI Necessary ()

REFERENCE(S): 20, 92, 99, 100, 101, 103

COMMENTS: * The facility should determine the extent of any leakage from drums that may have been stored here. In addition, it is unknown to what extent contamination may have occurred as a result of Black Beauty™ being spilled in the vicinity of this unit. Black Beauty™ is a by-product of the combustion of coal which is processed into an abrasive product. It typically is composed of fused ferro-alumino-silicate which is formed when molten slag is quenched in cold water. The end result is a coarse non-crystalline black glass. Black Beauty™ contains several hazardous constituents including antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium, and zinc. There is concern that Black Beauty™ could enter environmental media through runoff to surface water or leaching to ground water. If the confirmatory sampling reveals that hazardous constituents are present in the surrounding media, then further investigation of the unit is warranted.

SWMU DATA SHEET

Page 1 of 2

SWMU NUMBER: 4

PHOTOGRAPH NUMBER: 4.1, 4.2, 4.3, 4.4

NAME: Hazardous Materials/Waste Storage Area

TYPE OF UNIT: Drum Storage Area

PERIOD OF OPERATION: 1987 to 1992

PHYSICAL DESCRIPTION AND CONDITION: In Dura-Bond's Closure Permit Application, an area along the western wall outside of the main facility building was designated as a hazardous materials/waste storage area. This area is comprised of a 15 feet by 40 feet abutment of the main facility building with a concrete floor. According to Mr. Elrod, the area housed drums of MEK product after they were unloaded from the delivery trucks onto the pad through the double doors. Paint sludge was accumulated in drums along the south side of the area. A Drum Master™ distillation unit was also used in this area to distill spent MEK from the MEK paint mixture for reuse. A dark stain was observed on the cement floor at the southern end of the unit during the VSI.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: The unit received drummed MEK/paint waste following coating and painting operations within the main building. The unit contained waste which was characterized as F005. An analysis of the waste revealed constituent chemicals at the following levels: MEK 360,000 mg/l; toluene, 14,000 mg/l; ethylbenzene, 6,600 mg/l; xylenes, 29,000 mg/l; barium, 33 mg/l; cadmium, 0.18 mg/l; chromium, 58 mg/l; and lead, 16 mg/l. The distillation unit could distill five to six gallons of MEK/waste paint per hour. There is no diking around the edge of the concrete pad and there were gaps between the metal walls and the concrete pad at the time of the VSI.

RELEASE PATHWAYS: Air (M) Surface Water (H) Soil (H)
 Ground Water (H) Subsurface Gas (M)

HISTORY AND/OR EVIDENCE OF RELEASE(S): This area housed drums of MEK product after it was unloaded from the delivery trucks onto the pad. Paint sludge was accumulated in drums along the south side of the area. A dark stain was observed on the cement floor at the southern end of the unit during the VSI.

SWMU DATA SHEET

Page 2 of 2

RECOMMENDATIONS:

No Further Action ()
Confirmatory Sampling (*)
RFI Necessary ()

REFERENCE(S):

20, 92, 99

COMMENTS:

* The facility should determine the extent of any leakage to surrounding soil from the drums that were stored here. Since there is no dike to contain spills on the concrete floor and prevent product or waste from draining to the outside soil, samples should be taken along the outside edge of the storage area to determine if MEK was released to the ground during any of the processes which occurred here. If confirmatory sampling reveals that hazardous constituents are present in the surrounding media, then further investigation of the unit is warranted.

SWMU DATA SHEET

Page 1 of 2

SWMU NUMBER: 5

PHOTOGRAPH NUMBER: 5.1, 5.2, 5.3,
5.4, 5.5

NAME: Wheelabrator® Dust Collector

TYPE OF UNIT: Baghouse and Drum Storage Area

PERIOD OF OPERATION: 1987 to 1992

PHYSICAL DESCRIPTION AND CONDITION: Metal to be coated was sandblasted using a machine called a Wheelabrator® which is located along the eastern wall of the main facility building, near the north entrance. The materials, which only required finishing, entered the main facility building from the north side for sandblasting before moving on to the coating/painting area. Pieces of steel requiring cutting or welding beforehand, entered the building through the south drive-through entrance before being brought to the north side of the building for finishing. The Wheelabrator® removed millscale from the steel materials to provide a smooth finish for coating. Steel shot and grit were fed into eight wheels that spun and delivered abrasives to the steel material.

Emissions from the Wheelabrator® were vented to this baghouse. The baghouse is located outside of the main building along the eastern wall, approximately 50 feet north of the north drive-through. The baghouse dust collector, which is approximately 30 feet high, funnels residual dust from the Wheelabrator® into empty barrels on a concrete pad below it. The collection area is less than ten feet from the drainage ditch.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: The Wheelabrator® baghouse collected residual millscale material from the sandblasting process. The millscale and grit/shot residue was collected in 55-gallon drums and sold as scrap. Dura-Bond estimated that it collected approximately 12 to 15 drums - or approximately 12 tons of this scrap per year. Twenty-six 55-gallon drums labeled as "shot blast" were clustered around the Wheelabrator® Dust Collector at the time of the VSI. The tops of these drums were covered with plastic sheeting and sealed with clear tape. One drum was uncovered beneath the dust dispenser, waiting to be filled.

SWMU DATA SHEET

Page 2 of 2

RELEASE PATHWAYS: Air (M) Surface Water (H) Soil (H)
 Ground Water (H) Subsurface Gas (L)

HISTORY AND/OR EVIDENCE OF RELEASE(S): There was a blackish clay material, which appeared to be shot blast dust, on the ground and concrete pad surrounding the dust collector and drum area during the VSI. Chrome steel was used in the Wheelabrator® in the form of wear plates which may have released chrome with the residue. Dura-Bond has since been requested to have its shot blast dust residue analyzed to determine whether or not it is hazardous before it can be sent out for recycling. Samples of the shot blast dust taken in June 1992 revealed 510 ppm chromium, 60 ppm lead, 40 ppm arsenic, 18 ppm barium, and 12 ppm silver (Reference 106). The October 1990 FDER inspection report noted that the drums which had been placed under the baghouse unit were overflowing and that there was a rust colored dust on the ground next to the unit, as seen in photographs 5.4 and 5.5. At the time of the VSI, there were visible amounts of Wheelabrator® dust on the soil surface along the outdoor eastern side of the main building.

RECOMMENDATIONS: No Further Action ()
 Confirmatory Sampling (*)
 RFI Necessary ()

REFERENCE(S): 20, 27, 22, 25, 57, 100, 101

COMMENTS: * The facility should determine the extent of any contamination from the dust that has fallen to the ground surface in this area. If confirmatory sampling reveals that hazardous constituents are present in the surrounding media, then further investigation of the unit is warranted.

SWMU DATA SHEET

Page 1 of 2

SWMU NUMBER: 6

PHOTOGRAPH NUMBER: 6.1

NAME: Waste Oil Tank

TYPE OF UNIT: Underground Storage Tank

PERIOD OF OPERATION: Unknown until 1989

PHYSICAL DESCRIPTION AND CONDITION: The former underground waste oil tank was located in the southeast corner of the property, between the two empty storage buildings. City of Jacksonville records show that the tank's capacity was approximately 550 gallons. However, Mr. Norris estimated that the tank's capacity was only approximately 250 gallons. There is no file information available indicating the source and specific content of the waste oil. According to Mr. Norris, Dura-Bond never used either of the two storage buildings. The most eastern of the two formerly housed Florida Steel's erection equipment. The tank was located closer to the western building. The area between the two buildings now contains a scrap tire pile along with some scrap fencing.

According to a July 1989 FDER Pollutant Storage Tank System Inspection Report, the waste oil tank was one of the four tanks that were noted as abandoned at this site. In July 1991, Dura-Bond notified the City of Jacksonville of the prior removal of several tanks, including tank #3 which, according to Figure II-8 on page II-33, matches the location of the underground waste oil tank as pointed out during the VSI. The excavation and removal of the tank was conducted by Bill Johns Waste Oil Service of Jacksonville in July 1989. In a proposal submitted to Dura-Bond, Bill Johns proposed to fill the excavation area with available soil.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: According to representatives of Dura-Bond, the tank stored waste oil under a previous owner. No information was provided concerning the specific management of any other wastes or hazardous constituents.

RELEASE PATHWAYS: Air (L) Surface Water (M) Soil (H)
Ground Water (H) Subsurface Gas (M)

SWMU DATA SHEET

Page 2 of 2

HISTORY AND/OR EVIDENCE OF RELEASE(S): There is no information available from the facility or the file materials regarding the history of the tank including former uses, its condition, any past releases, or evidence of staining around the fill or vent ports. Dura-Bond representatives stated that the tank stored waste oil under a previous owner.

On June 21, 1992, a representative from Missimer & Associates detected unfiltered organic vapor analyzer (OVA) levels ranging from 10 ppm to 50 ppm and filtered levels ranging from 6 ppm to 45 ppm in soil in this vicinity (References 99, 105). It is unclear whether these readings resulted from residual waste oil or other organic material in the soil.

RECOMMENDATIONS: No Further Action ()
 Confirmatory Sampling (*)
 RFI Necessary ()

REFERENCE(S): 99, 100

COMMENTS: * Due to the limited amount of information for this unit from both the facility and the available file material, and the removal of the tank prior to UST regulations, confirmatory sampling of the surrounding media is warranted.

SWMU DATA SHEET

Page 1 of 2

SWMU NUMBER: 7

PHOTOGRAPH NUMBER: 7.1, 7.2, 7.3, 7.4

NAME: Ramp Area

TYPE OF UNIT: Drum Storage Area and Unloading Area

PERIOD OF OPERATION: Unknown to 1992

PHYSICAL DESCRIPTION AND CONDITION: The ramp area is located adjacent to the south side of the north drive-through. It consists of a concrete pad (measuring 10 feet by 30 feet), with a short low-pitched ramp running from the pad to the soil. A corrugated metal equipment storage shed is located adjacent to the south side of the pad and the east side of the main facility building. The area encompassing the pad, ramp and surrounding soil area is enclosed by a chain link fence. At the time of the VSI, a dumpster was also located where the fence meets the north drive-through. Any surface water runoff would likely drain to the Drainage Ditch (SWMU 19) which is located approximately 15 feet to the east.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: At the time of the VSI, there were two 55-gallon drums being stored on the concrete pad, against the wall of the main building. One was labeled as waste oil and the other was labeled as kerosene. In addition, there were five automotive batteries and several machinery parts being stored on the concrete pad. The October 1990 FDER inspection report noted that oil and other substances appeared to have been discharged to the ground in this area, as seen in photograph 7.4 in Appendix C.

RELEASE PATHWAYS: Air (L) Surface Water (L) Soil (L)
 Ground Water (L) Subsurface Gas (U)

HISTORY AND/OR EVIDENCE OF RELEASE(S): The soil surrounding the concrete pad lacked vegetation. However, the cause of this is unknown and may be due to stress inflicted by foot and machinery traffic in this vicinity. The October 1990 FDER inspection report noted that oil and other substances appeared to have been discharged to the ground in this area.

SWMU DATA SHEET

Page 2 of 2

RECOMMENDATIONS:

No Further Action ()
Confirmatory Sampling (*)
RFI Necessary ()

REFERENCE(S):

100

COMMENTS:

* The facility should determine the extent of any releases that may have occurred in this area. If confirmatory sampling reveals that hazardous constituents are present in the surrounding media, then further investigation of the unit is warranted.

SWMU DATA SHEET

Page 1 of 2

SWMU NUMBER: 8

PHOTOGRAPH NUMBER: 8.1, 8.2, 8.3, 8.4

NAME: Sandblast Residue Fill Area

TYPE OF UNIT: Disposal Area

PERIOD OF OPERATION: 1987 to 1992

PHYSICAL DESCRIPTION AND CONDITION: The fill area is located between the warehouse in the northeast corner of the facility and the eastern side of the main facility building. It extends between these two buildings, to the north and south of the Wheelabrator® Dust Collector (SWMU 5). According to the FDER hazardous waste inspection report, sandblast grit and millscale residue is used as fill material in this area. There is noticeably darker soil throughout this area. Parts of this area lack vegetation where dust from the sandblaster has been applied to the ground. The fill area is immediately adjacent to the Drainage Ditch (SWMU 19). During the FDER October 1990 hazardous waste inspection, several mounds of dark gray residue were noted along the north warehouse wall to the east of the main facility building, as seen in FDER photographs 8.3 and 8.4 in Appendix C.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: According to Mr. Norris and Mr. Elrod, residue from the outside sandblaster, which is located near the western edge of the property, was used as fill in the area near the Wheelabrator® Dust Collector (SWMU 5). According to Mr. Norris, the residue contained millscale and sand. It was graded as it accumulated. During the VSI, "Black Beauty" was observed on the ground surrounding the sandblast area. Black Beauty™ is a by-product of the combustion of coal which is processed into an abrasive product. It typically is composed of fused ferro-alumino-silicate which is formed when molten slag is quenched in cold water. The end result is a coarse non-crystalline black glass. Black Beauty™ contains several hazardous constituents including antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium, and zinc. There is concern that Black Beauty™ could enter environmental media through runoff to surface water or leaching to ground water.

SWMU DATA SHEET

Page 2 of 2

RELEASE PATHWAYS: Air (L) Surface Water (H) Soil (H)
 Ground Water (H) Subsurface Gas (U)

HISTORY AND/OR EVIDENCE OF RELEASE(S): There is noticeably darker soil throughout this area. Parts of this area lack vegetation where dust from the sandblaster has been applied to the ground. Because of the fill area's proximity to the drainage ditch, the potential for surface water runoff into the ditch and to potential receptors is high.

RECOMMENDATIONS: No Further Action ()
 Confirmatory Sampling (*)
 RFI Necessary ()

REFERENCE(S): 20, 100

COMMENTS: * The facility should determine the extent of any contamination that may have occurred in this area as a result of residue in contact with the ground surface. If confirmatory sampling reveals that hazardous constituents are present in the surrounding media, then further investigation of the unit is warranted.

SWMU DATA SHEET

Page 1 of 2

SWMU NUMBER: 9

PHOTOGRAPH NUMBER: 9.1, 9.2, 9.4,
9.5, 9.6

NAME: Historical Outside Storage Area

TYPE OF UNIT: Drum Storage Area

PERIOD OF OPERATION: 1987 to 1992

PHYSICAL DESCRIPTION AND CONDITION: This storage area is located immediately south of the north drive-through at the western edge of the main facility building. It consists of the concrete floor of the main building. The edge of the concrete is approximately 18 inches above the outside ground level in this area. The area adjacent to the concrete pad is now used to park site machinery. The October 1990 FDER inspection report noted that there were approximately fifty seven 55-gallon drums accumulating inside and outside of the main facility building. Dura-Bond employees were unable to identify the contents of most of the drums. Many of the drums were open and some were leaking or overflowing. The surrounding soil was stained, as can be seen in FDER photographs 9.4 and 9.5 in Appendix C.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: During an FDER hazardous waste inspection in 1990, it was noted that drums were stored on the concrete ledge and on the ground below it. No indication was made regarding the contents of the drums. However, the storage area is no longer used to store product or waste materials. Mr. Norris and Mr. Elrod said that no determination was ever made during site operations of whether the drums being brought to this area for storage contained hazardous waste.

RELEASE PATHWAYS: Air (L) Surface Water (M) Soil (M)
Ground Water (M) Subsurface Gas (U)

HISTORY AND/OR EVIDENCE OF RELEASE(S): Many of the drums which FDER officials observed accumulating in the area during their 1990 inspection were open. Some of them were leaking or overflowing, and the surrounding soil was stained.

SWMU DATA SHEET

Page 2 of 2

RECOMMENDATIONS:

No Further Action ()
Confirmatory Sampling (*)
RFI Necessary ()

REFERENCE(S):

100

COMMENTS:

* The facility should determine the extent of any leakage from the drums that were stored in this area. If confirmatory sampling reveals that hazardous constituents are present in the surrounding media, then further investigation of the unit is warranted.

SWMU DATA SHEET

Page 1 of 2

SWMU NUMBER: 10

PHOTOGRAPH NUMBER: 10.1, 10.2, 10.3
10.4, 10.5

NAME: Blue Shed

TYPE OF UNIT: Drum Storage Area

PERIOD OF OPERATION: 1987 to 1992

PHYSICAL DESCRIPTION AND CONDITION: The shed was removed on March 6, 1992 by Balfour Beatty workers during the construction of the large concrete slab which now covers the area. The shed formerly stored paint.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: There is no information available from the facility or the available file material that indicates what type of wastes have been associated with this shed but FDER photographs indicate that this waste may have been paint or epoxy. The area on which the shed stood was graded and is now covered by a concrete pad. However, this shed was noted in the October 1990 FDER inspection; according to the FDER report, there were thirteen 55-gallon drums adjacent to the paint shed along with several five-gallon and one-gallon containers. Many of these drums were open at the time, and only a few were empty. The smaller containers were stacked two or three containers high (see FDER photographs 10.2, 10.3, 10.4 and 10.5 in Appendix C). The report stated that facility personnel could not identify the contents of the majority of the containers. Any spilling that occurred in the area was minor. Because of the viscosity of the materials assumed to be stored in this unit, any spilled materials may have remained on the ground surface and not migrated to the surrounding media.

RELEASE PATHWAYS: Air (L) Surface Water (L) Soil (L)
Ground Water (L) Subsurface Gas (U)

HISTORY AND/OR EVIDENCE OF RELEASE(S): No evidence of unpermitted releases was identified in the available file material or observed during the VSI.

SWMU DATA SHEET

Page 2 of 2

RECOMMENDATIONS: No Further Action (X)
 Confirmatory Sampling ()
 RFI Necessary ()

REFERENCE(S): 20, 100

COMMENTS: None.

SWMU DATA SHEET

Page 1 of 2

SWMU NUMBER: 11

PHOTOGRAPH NUMBER: see 10.1,
11.1, 11.2, 11.3

NAME: Sheet Metal Building

TYPE OF UNIT: Drum Storage Area

PERIOD OF OPERATION: 1987 to 1992

PHYSICAL DESCRIPTION AND CONDITION: The sheet metal building is an old paint shed that is located approximately 15 feet west of the edge of the concrete pad which Balfour Beatty is installing on the western side of the main facility building. It is approximately 10 feet square and 10 feet high and is constructed of corrugated sheet metal. According to Mr. Norris, the shed was originally located closer to the western fence line when Dura-Bond first began operations at the property. There were three dented 55-gallon drums approximately 10 to 20 feet south of the shed at the time of the VSI.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: The shed was noted in the October 1990 FDER inspection. According to the report, there were many containers inside the paint shed. The report stated that some of these drums appeared to contain fiberglass resin. They were stacked two or three containers high, as seen in FDER photographs 11.1, 11.2, 11.3 in Appendix C.

RELEASE PATHWAYS: Air (L) Surface Water (L) Soil (L)
Ground Water (L) Subsurface Gas (U)

HISTORY AND/OR EVIDENCE OF RELEASE(S): No evidence of unpermitted releases was identified in the available file material or observed during the VSI.

SWMU DATA SHEET

Page 2 of 2

RECOMMENDATIONS: No Further Action (X)
Confirmatory Sampling ()
RFI Necessary ()

REFERENCE(S): 20, 100

COMMENTS: None.

SWMU DATA SHEET

Page 1 of 3

SWMU NUMBER: 12

PHOTOGRAPH NUMBER: 12.1, 12.2, 12.3,
12.4, 12.5, 12.6

NAME: Paint Cans Excavation Area

TYPE OF UNIT: Landfill

PERIOD OF OPERATION: Unknown (possibly 1970s) to 1992

PHYSICAL DESCRIPTION AND CONDITION: This excavation area is located on the south side of the property adjacent to the south Drainage Ditch (SWMU 19). It is located at the top of the ledge overlooking the Highway Avenue drainage ditch and lies approximately 15 feet above the bottom of the Highway Avenue ditch. The excavation pit is located approximately five feet east of the westernmost south driveway. It measures approximately 10 feet deep and 15 feet in diameter. A narrow ravine runs from the pit to the base of the Highway Avenue ditch. According to Dura-Bond officials, Florida Steel or possibly Bushnell used to maintain a paint shed in this area. It is also near an area which historically experienced soil washouts.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: According to Dura-Bond officials, at the time that this unit was discovered, some of the five-gallon cans had ruptured and the soil around the paint cans was saturated with paint. The paint was recognized as red lead-based primer paint which Florida Steel once used on some of its Department of Transportation projects. Mr. Elrod stated that 3.5 to 4 gallons of product were recovered from this area. Mr. Oliveros stated that the surrounding soils were contaminated with VOCs based on visual observations, odor, and high OVA readings. Within 24 hours of discovery of this unit, Missimer consultants took samples of the saturated soil and the surrounding cans. Samples were also taken of the runoff in contact with these wastes. The waste paint was containerized and stored onsite in the Paint Can Excavation Drum Storage Area (SWMU 20). Sorbents were also applied to contain any remaining spill material. Approximately 50 drums were filled with potentially contaminated soil from the excavation pit and stored at the Paint Can Excavation Drum Storage Area. Additional excavation materials are being stored in the Covered and Uncovered Soil Piles (SWMUs 3 and 4).

RELEASE PATHWAYS: Air (L) Surface Water (H) Soil (H)
Ground Water (H) Subsurface Gas (H)

SWMU DATA SHEET

Page 2 of 3

HISTORY AND/OR EVIDENCE OF RELEASE(S): According to Mr. Elrod, the paint cans were unearthed on April 8, 1992. On April 9, 1992, all of the paint cans were containerized. By June 11, 1992, the Covered and Uncovered Soil Piles (SWMUs 13 and 14, respectively) had been created and the storage drums in the Paint Can Excavation Drum Storage Area (SWMU 20) had been filled. Task Environmental of Tampa, Florida conducted the paint can removal.

Sampling results of the paint sludge using a flame ionization detector indicated contamination at the following levels: 270,000 to 540,000 ppm lead; 500,000 to 680,000 ppb ethylbenzene; 2,900,000 to 3,300,000 ppb total xylenes; 1,800,000 ppb toluene; 760,000 ppb MEK; 24 ppm barium; and 53 ppm selenium. Sampling results for the standing water in this area indicate contamination at the following levels: 12 ppm lead; 350 ppm chromium; 8,000,000 ppb ethylbenzene; 145,837 ppm total petroleum hydrocarbons; and 22,000,000 ppb total xylenes. Sampling results for the surrounding soil showed contamination at the following levels: 2,000 ppm lead; 120 ppm barium; 72 ppm chromium; 22,000 ppb MEK; 61,000 ppb acetone; 390,000 ppb ethylbenzene; 49,000 ppb toluene; and 220,000 ppb total xylenes (References 99, 105). Sampling results are shown in Table III-1.

In addition, due to the presence of a seepage face along the northern edge of the Highway Avenue drainage ditch, shallow ground water beneath the facility discharges to the ditch, according to Dura-Bond's Closure Permit Application (Reference 92). Given the proximity of the excavated paint cans to the northern edge of the ditch, there is a high likelihood that contamination from the paint cans may have entered the ditch.

RECOMMENDATIONS: No Further Action ()
Confirmatory Sampling ()
RFI Necessary (*)

REFERENCE(S): 92, 100, 101

Table III-1
Sampling Results
from Paint Cans Excavation Area (SWMU 12)



Sampling Results from Paint Cans Excavation Area
(SWMU 12) (Reference 99)

Analytical **Technologies, Inc.** 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

MISSIMER & ASSOCIATES INC
8130 BAYMEADOWS WAY WEST
SUITE 104
JACKSONVILLE FL 32256-0000

Lab I.D.#: 92-2914A
Order Number: P56821
Received Date: 04/10/92
Client: 13042
Sampled By: L.W.P.
Sample Date: 04/08/92
Sample Time: PM

Project Number: JE1-560
Project Name: DURABOND
Sample Site: DURABOND STEEL-JAX
Sample Type: SLUDGE

N/S = Not Submitted

R E S U L T S

reported on the following page(s)

Comments: PPM = Parts Per Million, mg/kg on a dry basis. BDL = Below Detection Limits. Method Ref: SW-846, 3rd Edition, 11/86. Metals done on an as is basis. *Matrix Interference. +Diluted due to overcalibration.

Approved By :

E. Nicholatti

Table III-1 (continued)



Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Client: MISSIMER & ASSOCIATES INC

Lab I.D.#: 92-2914A-1

Project Number: JE1-560

Received Date: 04/10/92

Project Name: DURABOND

Sampled By: L.W.P.

Sample Site: DURABOND STEEL-JAX

Sample Type: SLUDGE

Sample ID.: C-1

Sample Date: 04/08/92 Time: PM

RCRA/METALS/S

RCRA METALS

(SOIL)

| Parameter | Units | Result | Detection Limit |
|-----------|-------|--------|-----------------|
| SILVER | PPM | BDL | 5* |
| ARSENIC | PPM | BDL | 30* |
| BARIUM | PPM | 24 | 5* |
| CADMIUM | PPM | BDL | 2.5* |
| CHROMIUM | PPM | 5 | 5* |
| MERCURY | PPM | 0.6 | 0.1 |
| LEAD | PPM | 540000 | 2000+ |
| SELENIUM | PPM | 53 | 50* |



Analytical Technologies, Inc. 11 East Olive Road, Pensacola, Florida 32514 (904) 474-1001

Client: MISSIMER & ASSOCIATES INC

Lab I.D.#: 92-2914A-2

Project Number: JE1-560

Received Date: 04/10/92

Project Name: DURABOND

Sampled By: L.W.P.

Sample Site: DURABOND STEEL-JAX

Sample Type: SLUDGE

Sample ID.: C-2 Sample Date: 04/08/92 Time: 3:PM

RCRA/METALS/S

RCRA METALS

RCRA METALS (SOIL)

| Parameter | Units | Result | Detection Limit |
|-----------|-------|--------|-----------------|
| SILVER | PPM | BDL | 5* |
| ARSENIC | PPM | BDL | 30* |
| BARIUM | PPM | 42 | 5* |
| CADMIUM | PPM | BDL | 2.5* |
| CHROMIUM | PPM | 36 | 5* |
| MERCURY | PPM | 0.4 | 0.1 |
| LEAD | PPM | 270000 | 2000+ |
| SELENIUM | PPM | BDL | 50* |



Analytical Technologies, Inc.

11 East Olive Road

Pensacola, Florida 32514

(904) 474-1001

Client: MISSIMER & ASSOCIATES INC

Lab I.D.#: 92-2914A-1

Project Number: JE1-560

Received Date: 04/10/92

Project Name: DURABOND

Sampled By: L.W.P.

Sample Site: DURABOND STEEL-JAX

Sample Type: SLUDGE

Sample ID.: C-1 Sample Date: 04/08/92 Time: 4PM

VOL/8240

VOLATILE METHOD 8240

| Parameter | Units | Result | Detection Limit |
|----------------------------|-------|---------|-----------------|
| ACETONE | PPB | BDL | 1100000 |
| ACROLEIN | PPB | BDL | 11000000 |
| ACRYLONITRILE | PPB | BDL | 11000000 |
| BENZENE | PPB | BDL | 110000 |
| BROMODICHLOROMETHANE | PPB | BDL | 110000 |
| BROMOFORM | PPB | BDL | 220000 |
| BROMOMETHANE | PPB | BDL | 110000 |
| 2-BUTANONE (MEK) | PPB | BDL | 330000 |
| CARBON DISULFIDE | PPB | BDL | 110000 |
| CARBON TETRACHLORIDE | PPB | BDL | 220000 |
| CHLOROBENZENE | PPB | BDL | 110000 |
| CHLOROETHANE | PPB | BDL | 110000 |
| 2-CHLOROETHYL VINYL ETHER | PPB | BDL | 550000 |
| CHLOROFORM | PPB | BDL | 220000 |
| CHLOROMETHANE | PPB | BDL | 220000 |
| CHLORODIBROMOMETHANE | PPB | BDL | 550000 |
| DIBROMOMETHANE | PPB | BDL | 550000 |
| DICHLORODIFLUOROMETHANE | PPB | BDL | 550000 |
| 1,1-DICHLOROETHANE | PPB | BDL | 110000 |
| 1,2-DICHLOROETHANE | PPB | BDL | 220000 |
| 1,1-DICHLOROETHENE | PPB | BDL | 110000 |
| TOTAL 1,2-DICHLOROETHYLENE | PPB | BDL | 550000 |
| 1,2-DICHLOROPROPANE | PPB | BDL | 220000 |
| CIS-1,3-DICHLOROPROPENE | PPB | BDL | 110000 |
| TRANS-1,3-DICHLOROPROPENE | PPB | BDL | 110000 |
| 1,4-DICHLORO-2-BUTENE | PPB | BDL | 550000 |
| ETHANOL | PPB | BDL | 5500000 |
| ETHYLBENZENE | PPB | 6800000 | 110000 |
| ETHYL METHACRYLATE | PPB | BDL | 550000 |
| 2-HEXANONE | PPB | BDL | 330000 |
| IODOMETHANE | PPB | BDL | 550000 |
| METHYLENE CHLORIDE | PPB | BDL | 330000 |
| 4-METHYL-2-PENTANONE | PPB | BDL | 330000 |
| STYRENE | PPB | BDL | 220000 |
| 1,1,2,2-TETRACHLOROETHANE | PPB | BDL | 220000 |

Sample ID.: C-1

Test Parameters continued on next page



Analytical Technologies, Inc.

11 East Olive Road

Pensacola, Florida 32514

(904) 474-1001

Client: MISSIMER & ASSOCIATES INC

Lab I.D.#: 92-2914A-1

Received Date: 04/10/92

Sampled By: L.W.P.

Project Number: JE1-560

Project Name: DURABOND

Sample Site: DURABOND STEEL-JAX

Sample Type: SLUDGE

Sample ID#: C-1

Sample Date: 04/08/92

Time: PM

VOL/8240

VOLATILE METHOD 8240

continued

| Parameter | Units | Result | Detection Limit |
|------------------------------|-------|---------|-----------------|
| TETRACHLOROETHENE | PPB | BDL | 110000 |
| TOLUENE | PPB | BDL | 550000 |
| 1,1,1-TRICHLOROETHANE | PPB | BDL | 550000 |
| 1,1,2-TRICHLOROETHANE | PPB | BDL | 220000 |
| TRICHLOROETHENE | PPB | BDL | 110000 |
| TRICHLOROFLUOROMETHANE | PPB | BDL | 110000 |
| 1,2,3-TRICHLOROPROPANE | PPB | BDL | 550000 |
| VINYL ACETATE | PPB | BDL | 220000 |
| VINYL CHLORIDE | PPB | BDL | 110000 |
| TOTAL XYLENES | PPB | 2900000 | 440000 |
| BROMOFLUOROBENZENE *SURR* | % REC | 104 | |
| 1,2-DICHLOROETHANE D4 *SURR* | % REC | 100 | |
| TOLUENE D8 *SURR* | % REC | 102 | |



Analytical Technologies, Inc. 11 East Olive Road

Pensacola, Florida 32514

(904) 474-1001

Client: MISSIMER & ASSOCIATES INC

Lab. I.D.#: 92-2914A-21

Project Number: JE1-560

Received Date: 04/10/92

Project Name: DURABOND

Sampled By: L.W.P.

Sample Site: DURABOND STEEL-JAX

Sample Type: SLUDGE

Sample ID.: C-2 Sample Date: 04/08/92 Time: PM

JOL/8240

VOLATILE METHOD 8240

| Parameter | Units | Result | Detection Limit |
|----------------------------|-------|--------|-----------------|
| ACETONE | PPB | BDL | 130000 |
| ACROLEIN | PPB | BDL | 1300000 |
| ACRYLONITRILE | PPB | BDL | 1300000 |
| BENZENE | PPB | BDL | 13000 |
| BROMODICHLOROMETHANE | PPB | BDL | 13000 |
| BROMOFORM | PPB | BDL | 26000 |
| BROMOMETHANE | PPB | BDL | 13000 |
| 2-BUTANONE (MEK) | PPB | 760000 | 38000 |
| CARBON DISULFIDE | PPB | BDL | 13000 |
| CARBON TETRACHLORIDE | PPB | BDL | 26000 |
| CHLOROBENZENE | PPB | BDL | 13000 |
| CHLOROETHANE | PPB | BDL | 13000 |
| 2-CHLOROETHYL VINYL ETHER | PPB | BDL | 64000 |
| CHLOROFORM | PPB | BDL | 26000 |
| CHLOROMETHANE | PPB | BDL | 26000 |
| CHLORODIBROMOMETHANE | PPB | BDL | 64000 |
| DIBROMOMETHANE | PPB | BDL | 64000 |
| DICHLORODIFLUOROMETHANE | PPB | BDL | 64000 |
| 1,1-DICHLOROETHANE | PPB | BDL | 13000 |
| 1,2-DICHLOROETHANE | PPB | BDL | 26000 |
| 1,1-DICHLOROETHENE | PPB | BDL | 13000 |
| TOTAL 1,2-DICHLOROETHYLENE | PPB | BDL | 64000 |
| 1,2-DICHLOROPROPANE | PPB | BDL | 26000 |
| CIS-1,3-DICHLOROPROPENE | PPB | BDL | 13000 |
| TRANS-1,3-DICHLOROPROPENE | PPB | BDL | 13000 |
| 1,4-DICHLORO-2-BUTENE | PPB | BDL | 64000 |
| ETHANOL | PPB | BDL | 640000 |
| ETHYLBENZENE | PPB | 500000 | 13000 |
| ETHYL METHACRYLATE | PPB | BDL | 64000 |
| 2-HEXANONE | PPB | BDL | 38000 |
| IODOMETHANE | PPB | BDL | 64000 |
| METHYLENE CHLORIDE | PPB | BDL | 38000 |
| 4-METHYL-2-PENTANONE | PPB | 100000 | 38000 |
| STYRENE | PPB | BDL | 26000 |
| 1,1,2,2-TETRACHLOROETHANE | PPB | BDL | 26000 |

Sample ID.: C-2

Test Parameters continued on next page

Table III-1 (continued)



Analytical Technologies, Inc.

11 East Olive Road

Pensacola, Florida 32514

(904) 474-1001

Client: MISSIMER & ASSOCIATES INC

Lab I.D.#: 92-2914A-2

Received Date: 04/10/92

Sampled By: L.W.P.

Project Number: JE1-560

Project Name: DURABOND

Sample Site: DURABOND STEEL-JAX

Sample Type: SLUDGE

Sample ID.: C-2

Sample Date: 04/08/92 Time: PM

VOL/8240

VOLATILE METHOD 8240

continued

| Parameter | Units | Result | Detection Limit |
|------------------------------|-------|---------|-----------------|
| TETRACHLOROETHENE | PPB | BDL | 13000 |
| TOLUENE | PPB | 1800000 | 64000 |
| 1,1,1-TRICHLOROETHANE | PPB | BDL | 64000 |
| 1,1,2-TRICHLOROETHANE | PPB | BDL | 26000 |
| TRICHLOROETHENE | PPB | BDL | 13000 |
| TRICHLOROFLUOROMETHANE | PPB | BDL | 13000 |
| 1,2,3-TRICHLOROPROPANE | PPB | BDL | 64000 |
| VINYL ACETATE | PPB | BDL | 26000 |
| VINYL CHLORIDE | PPB | BDL | 13000 |
| TOTAL XYLENES | PPB | 3300000 | 51000 |
| BROMOFLUOROBENZENE *SURR* | % REC | 108 | |
| 1,2-DICHLOROETHANE D4 *SURR* | % REC | 100 | |
| TOLUENE D8 *SURR* | % REC | 99 | |

end of report

Table III-1 (continued)



Analytical Technologies, Inc.

11 East Olive Road

Pensacola, Florida 32514

(904) 474-1001

Client: MISSIMER & ASSOCIATES INC

Lab I.D.#: 92-2914B-1

Project Number: JE1-560

Received Date: 04/10/92

Project Name: DURABOND

Sampled By: L.W.P.

Sample Site: DURABOND STEEL-JAX

Sample Type: SLUDGE

Sample ID.: LIQUID

Sample Date: 04/08/92

Time: 1730

RCRA/METALS/S

RCRA METALS

(SOIL)

| Parameter | Units | Result | Detection Limit |
|-----------|-------|--------|-----------------|
| SILVER | PPM | 0.9 | 0.1 |
| ARSENIC | PPM | BDL | 0.4* |
| BARIUM | PPM | BDL | 0.6* |
| CADMIUM | PPM | 0.08 | 0.06 |
| CHROMIUM | PPM | 350 | 0.5* |
| MERCURY | PPM | 1.0 | 0.10 |
| LEAD | PPM | 12 | 3* |
| SELENIUM | PPM | BDL | 0.6* |



Analytical Technologies, Inc.

11 East Olive Road

Pensacola, Florida 32514

(904) 474-1001

Client: MISSIMER & ASSOCIATES INC

Lab I.D.#: 92-2914B-1

Project Number: JE1-560

Received Date: 04/10/92

Project Name: DURABOND

Sampled By: L.W.P.

Sample Site: DURABOND STEEL-JAX

Sample Type: SLUDGE

Sample ID.: LIQUID

Sample Date: 04/08/92 Time: 1730

VOL/8240

VOLATILE METHOD 8240

| Parameter | Units | Result | Detection Limit |
|----------------------------|-------|---------|-----------------|
| ACETONE | PPB | BDL | 10000000 |
| ACROLEIN | PPB | BDL | 100000000 |
| ACRYLONITRILE | PPB | BDL | 100000000 |
| BENZENE | PPB | BDL | 1000000 |
| BROMODICHLOROMETHANE | PPB | BDL | 1000000 |
| BROMOFORM | PPB | BDL | 2000000 |
| BROMOMETHANE | PPB | BDL | 1000000 |
| 2-BUTANONE (MEK) | PPB | BDL | 3000000 |
| CARBON DISULFIDE | PPB | BDL | 1000000 |
| CARBON TETRACHLORIDE | PPB | BDL | 2000000 |
| CHLOROETHANE | PPB | BDL | 1000000 |
| 2-CHLOROETHYL VINYL ETHER | PPB | BDL | 5000000 |
| CHLOROFORM | PPB | BDL | 2000000 |
| CHLOROMETHANE | PPB | BDL | 2000000 |
| CHLORODIBROMOMETHANE | PPB | BDL | 5000000 |
| DIBROMOMETHANE | PPB | BDL | 5000000 |
| DICHLORODIFLUOROMETHANE | PPB | BDL | 5000000 |
| 1,1-DICHLOROETHANE | PPB | BDL | 1000000 |
| 1,2-DICHLOROETHANE | PPB | BDL | 2000000 |
| 1,1-DICHLOROETHENE | PPB | BDL | 1000000 |
| TOTAL 1,2-DICHLOROETHYLENE | PPB | BDL | 5000000 |
| 1,2-DICHLOROPROPANE | PPB | BDL | 2000000 |
| CIS-1,3-DICHLOROPROPENE | PPB | BDL | 1000000 |
| TRANS-1,3-DICHLOROPROPENE | PPB | BDL | 1000000 |
| 1,4-DICHLORO-2-BUTENE | PPB | BDL | 5000000 |
| ETHANOL | PPB | BDL | 50000000 |
| ETHYLBENZENE | PPB | 8000000 | 1000000 |
| ETHYL METHACRYLATE | PPB | BDL | 5000000 |
| 2-HEXANONE | PPB | BDL | 3000000 |
| IODOMETHANE | PPB | BDL | 5000000 |
| METHYLENE CHLORIDE | PPB | BDL | 3000000 |
| 4-METHYL-2-PENTANONE | PPB | BDL | 3000000 |
| STYRENE | PPB | BDL | 2000000 |
| 1,1,2,2-TETRACHLOROETHANE | PPB | BDL | 2000000 |

Sample ID.: LIQUID

Test Parameters continued on next page



Analytical Technologies, Inc.

11 East Olive Road

Pensacola, Florida 32514

(904) 474-1001

Client: MISSIMER & ASSOCIATES INC

Lab I.D.#: 92-2914C-1

Project Number: JE1-560

Received Date: 04/10/92

Project Name: DURABOND

Sampled By: L.W.P.

Sample Site: DURABOND STEEL-JAX

Sample Type: SOIL

Sample ID.: S-1

Sample Date: 04/08/92 Time: 1810

VOL/8240

VOLATILE METHOD 8240

continued

| Parameter | Units | Result | Detection Limit |
|------------------------------|-------|--------|-----------------|
| TETRACHLOROETHENE | PPB | BDL | 1200 |
| TOLUENE | PPB | 49000 | 6100 |
| 1,1,1-TRICHLOROETHANE | PPB | BDL | 6100 |
| 1,1,2-TRICHLOROETHANE | PPB | BDL | 2400 |
| TRICHLOROETHENE | PPB | BDL | 1200 |
| TRICHLOROFLUOROMETHANE | PPB | BDL | 1200 |
| 1,2,3-TRICHLOROPROPANE | PPB | BDL | 6100 |
| VINYL ACETATE | PPB | BDL | 2400 |
| VINYL CHLORIDE | PPB | BDL | 1200 |
| TOTAL XYLENES | PPB | 220000 | 4900 |
| BROMOFLUOROBENZENE *SURR* | % REC | 110 | |
| 1,2-DICHLOROETHANE D4 *SURR* | % REC | 97 | |
| TOLUENE D8 *SURR* | % REC | 101 | |

end of report



Analytical Technologies, Inc. 11 East Olive Road Pensacola, Florida 32514

(904) 474-1001

Client: MISSIMER & ASSOCIATES INC

Lab I.D.#: 92-2914D-1

Project Number: JE1-560

Received Date: 04/10/92

Project Name: DURABOND

Sampled By: L.W.P.

Sample Site: DURABOND STEEL-JAX

Sample Type: SLUDGE

Sample ID.: LIQUID

Sample Date: 04/08/92 Time: 1730

TPH/GC/FID/S

TPH/GC/FID/SOIL

| Parameter | Units | Result | Detection Limit |
|--------------------------------|-------|--------|-----------------|
| TOTAL PETROLEUM HYDROCARBONS | PPM | 145837 | 5.0 |
| IDENTIFICATION MINERAL SPIRITS | | 145837 | |

end of repo



Analytical Technologies, Inc.

11 East Olive Road

Pensacola, Florida 32514

(904) 474-1001

Client: MISSIMER & ASSOCIATES INC

Lab I.D.#: 92-2914E-100

Received Date: 04/10/92

Project Number: JE1-560

Sampled By: L.W.P.

Project Name: DURABOND

Sample Site: DURABOND STEEL-JAX

Sample Type: SLUDGE

Sample ID: C-1

Sample Date: 04/08/92

Time: 4PM

TCLP/METALS/PR

TCLP METALS ANALYSIS

P. 101-101

| Parameter | Units | Result | Detection Limit |
|----------------|------------|--------|-----------------|
| SILVER, TCLP | PPM | BDL | 0.5 |
| ARSENIC, TCLP | PPM | BDL | 0.5 |
| BARIUM, TCLP | PPM | BDL | 10 |
| CADMIUM, TCLP | PPM | BDL | 0.1 |
| CHROMIUM, TCLP | PPM | BDL | 0.5 |
| MERCURY, TCLP | PPM | BDL | 0.002 |
| LEAD, TCLP | PPM | 1500 | 5+ |
| SELENIUM, TCLP | PPM | BDL | 0.1 |
| SILVER, TCLP | % RECOVERY | 80 | |
| ARSENIC, TCLP | % RECOVERY | 90 | |
| BARIUM, TCLP | % RECOVERY | 85 | |
| CADMIUM, TCLP | % RECOVERY | 90 | |
| CHROMIUM, TCLP | % RECOVERY | 80 | |
| MERCURY, TCLP | % RECOVERY | 100 | |
| LEAD, TCLP | % RECOVERY | 30000 | |
| SELENIUM, TCLP | % RECOVERY | 100 | |

end of report

SWMU DATA SHEET

Page 3 of 3

COMMENTS:

* Dura-Bond indicated in its Closure Permit Application that Florida Steel used red lead-based primer paints in its operations. Mr. Oliveros also stated that Florida Steel used such paints on Department of Transportation related projects. According to Mr. Elrod, Florida Steel is paying for the cleanup of this area (Reference 100). Given this information and Mr. Elrod's and Mr. Oliveros' indications that the surrounding soil was contaminated with VOCs, further investigation as to the extent and magnitude of the contamination to the environmental media in this area is warranted.

SWMU DATA SHEET

Page 1 of 2

SWMU NUMBER: 13

PHOTOGRAPH NUMBER: 13.1, 13.2, 13.3,
13.4, 13.5, 13.6

NAME: Covered Soil Pile

TYPE OF UNIT: Waste Pile

PERIOD OF OPERATION: 1992

PHYSICAL DESCRIPTION AND CONDITION: Preliminary segregation of the soil from the Paint Cans Excavation Area (SWMU 12) occurred in the southwest corner of the property. Soils with visual evidence of paint contamination, as well as paint cans, were drummed and stored in the Paint Can Excavation Drum Storage Area (SWMU 20); however, soil not containing visual signs of contamination but producing high OVA readings was placed in this unit (measuring 30 feet in diameter and approximately ten feet high). According to Mr. Elrod, the pile was lined underneath and covered with a double layer of sheet plastic (Visquene™). There was a dirt berm surrounding the pile at the time of the VSI. However, there is evidence of surface water runoff from the vicinity of this unit to a nearby Storm Water System (SWMU 18) drain.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: This unit manages soil from the Paint Cans Excavation Area (SWMU 12) which produced elevated OVA readings at the time of excavation. According to Mr. Elrod, preliminary indications suggest that this soil may contain ethylbenzene, xylene, and mineral spirits. Missimer and Associates collected samples for SW846 Method 8240 and RCRA metals analyses, but the results of these tests are not yet available.

RELEASE PATHWAYS: Air (M) Surface Water (H) Soil (M)
Ground Water (M) Subsurface Gas (L)

HISTORY AND/OR EVIDENCE OF RELEASE(S): There is evidence of surface water runoff from the vicinity of this unit to the Highway Avenue drainage ditch and a nearby Storm Water System (SWMU 18) drain. In addition, VSI team members detected a noticeable VOC odor near the covered soil pile. The pile is also adjacent to the Highway Avenue drainage ditch which serves as a receptor for surface water discharge from the facility.

SWMU DATA SHEET

Page 2 of 2

In addition, due to the presence of a seepage face along the northern edge of the Highway Avenue drainage ditch, shallow ground water beneath the facility discharges to the ditch, according to Dura-Bond's Closure Permit Application (Reference 92). Given the proximity of the excavated paint cans to the northern edge of the ditch, there is a high likelihood that contamination from the paint cans may have entered the ditch.

RECOMMENDATIONS: No Further Action ()
 Confirmatory Sampling (*)
 RFI Necessary ()

REFERENCE(S): 100

COMMENTS: * The results of the soil sampling analyses from this pile are forthcoming. The facility should also determine the extent of any contamination to the surrounding media which may have resulted from any runoff or seepage from the pile. If confirmatory sampling reveals that hazardous constituents are present in the surrounding media, then further investigation of the unit is warranted.

SWMU DATA SHEET

Page 1 of 2

SWMU NUMBER: 14

PHOTOGRAPH NUMBER: 14.1, 13.3

NAME: Uncovered Soil Pile

TYPE OF UNIT: Waste Pile

PERIOD OF OPERATION: 1992

PHYSICAL DESCRIPTION AND CONDITION: Preliminary segregation of the soil from the Paint Cans Excavation Area (SWMU 12) occurred in the southwest corner of the property. "Clean" soil (based on low OVA readings, as well as lack of visual evidence of contamination or organic odors) from the excavation area was placed in an unlined pile in the far southwest corner of the property. The pile is 15 to 20 feet in diameter and approximately 10 feet high. No cover or liner was placed on or beneath this pile. There is evidence of surface water runoff from the vicinity of this unit to a nearby Storm Water System (SWMU 18) drain.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: Missimer and Associates performed SW846 Method 8240 for volatiles and RCRA metals tests on the excavated material in this unit; however, the results of these analyses are not yet available.

RELEASE PATHWAYS: Air (L) Surface Water (H) Soil (M)
Ground Water (M) Subsurface Gas (L)

HISTORY AND/OR EVIDENCE OF RELEASE(S): There is evidence of surface water runoff from the vicinity of this unit to a nearby Storm Water System (SWMU 18) drain. The pile is also adjacent to the Highway Avenue drainage ditch which serves as a receptor for surface water discharge for the facility.

In addition, due to the presence of a seepage face along the northern edge of the Highway Avenue drainage ditch, shallow ground water beneath the facility discharges to the ditch, according to Dura-Bond's Closure Permit Application (Reference 92). Given the proximity of the excavated paint cans to the northern edge of the ditch, there is a high likelihood that contamination from the paint cans may have entered the ditch.

SWMU DATA SHEET

Page 2 of 2

RECOMMENDATIONS:

No Further Action ()
Confirmatory Sampling (*)
RFI Necessary ()

REFERENCE(S):

100

COMMENTS:

* The results of the soil sampling tests from this pile are forthcoming. The facility should determine the extent of any contamination to the surrounding media which may have resulted from any runoff or seepage from the pile. If confirmatory sampling reveals that hazardous constituents are present in the surrounding media, then further investigation of the unit is warranted.

SWMU DATA SHEET

Page 1 of 2

SWMU NUMBER: 15

PHOTOGRAPH NUMBER: 15.1

NAME: Shot Blast Drum Storage Area

TYPE OF UNIT: Drum Storage Area

PERIOD OF OPERATION: 1987 to 1992

PHYSICAL DESCRIPTION AND CONDITION: This drum storage area is located adjacent to the Sandblast Area (SWMU 16), approximately 20 feet to the northwest of the outdoor sandblaster, on the western side of the main facility building. At the time of the VSI, there were twenty seven drums labeled "Shot Dust" arranged in this area. The drums were covered with lids and sealed with plastic and clear tape. These drums contained residual millscale and grit/shot dust from the Wheelabrator® Dust Collector (SWMU 5).

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: The Wheelabrator® baghouse collected residual millscale from the sandblasting process. The millscale and grit/shot residue were collected in 55-gallon drums and sold as scrap. Dura-Bond estimated that the facility produced approximately 12 to 15 drums - or approximately 12 tons of this scrap per year. Chrome steel was used in the Wheelabrator® in the form of wear plates which may have released chrome with the residue. Dura-Bond has since been requested to analyze its shot blast dust residue to determine whether or not it is hazardous before it can be sent out for recycling. Samples of the shot blast dust taken in June 1992 revealed 510 ppm chromium, 60 ppm lead, 40 ppm total arsenic, 18 ppm total barium, and 12 ppm total silver (Reference 106). TCLP analyses for silver, arsenic, chromium, and lead (the only TC constituents tested) were below regulatory levels.

RELEASE PATHWAYS: Air (L) Surface Water (L) Soil (L)
Ground Water (L) Subsurface Gas (L)

HISTORY AND/OR EVIDENCE OF RELEASE(S): No evidence of unpermitted releases from the drums was identified in the available file material or observed during the VSI.

SWMU DATA SHEET

Page 2 of 2

RECOMMENDATIONS: No Further Action (X)
Confirmatory Sampling ()
RFI Necessary ()

REFERENCE(S): 100

COMMENTS: None.

SWMU DATA SHEET

Page 1 of 2

SWMU NUMBER: 16

PHOTOGRAPH NUMBER: 16.1, 16.2, 16.3, 16.4

NAME: Sandblast Area

TYPE OF UNIT: Process Area

PERIOD OF OPERATION: 1987 to 1992

PHYSICAL DESCRIPTION AND CONDITION: The outside sandblaster is located approximately 100 feet west of the main facility building. Twenty seven barrels labeled "Shot Dust" were clustered to the north of the sandblaster in the Shot Blast Drum Storage Area (SWMU 15) at the time of the VSI. There is evidence of a storm water outfall parallel to the midway point of the main facility building, near the Sandblast Area. This outfall is located on the Chatham Steel property to the west of Dura-Bond.

The sandblast pile was created from the residual sandblast material at the outdoor sandblaster. Sandblast residue that fell to the ground around the sandblaster was either graded in the vicinity of the machine, used for fill on the eastern side of the main facility building (SWMU 8), or placed in this pile northwest of the sandblaster. The pile is approximately ten feet high and 15 feet in diameter and is positioned on base soil. The residual material is a light gray color with darker particles interspersed.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: The area surrounding the outdoor sandblaster is one of two areas on the property which Mr. Norris identified as being fill areas for sandblast residue. According to Mr. Norris, the residue contained millscale and sand which was graded as it accumulated. During the VSI, Black Beauty™ was observed on the ground surrounding the sandblast area. Black Beauty™ is a by-product of the combustion of coal which is processed into an abrasive product. It typically is composed of fused ferro-alumino-silicate which is formed when molten slag is quenched in cold water. The end result is a coarse non-crystalline black glass. Black Beauty™ contains several hazardous constituents including antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium, and zinc. There is concern that Black Beauty™ could enter environmental media through runoff to surface water or leaching to ground water.

SWMU DATA SHEET

Page 2 of 2

RELEASE PATHWAYS: Air (L) Surface Water (H) Soil (H)
 Ground Water (H) Subsurface Gas (L)

HISTORY AND/OR EVIDENCE OF RELEASE(S): The residue, which may contain Black Beauty™ from the sandblasting process, is graded as it accumulates in the area surrounding the sandblaster.

RECOMMENDATIONS: No Further Action ()
 Confirmatory Sampling (*)
 RFI Necessary ()

REFERENCE(S): 100, 101

COMMENTS: * It is unknown to what extent contamination may have occurred as a result of Black Beauty™ being used in the sandblasting process. If confirmatory sampling reveals that hazardous constituents are present in the surrounding media, then further investigation of the unit is warranted.

The results of the soil sampling tests from this pile are forthcoming. The facility should determine the extent of any contamination to the surrounding media which may have resulted from any runoff or seepage from the pile. If confirmatory sampling reveals that hazardous constituents are present in the surrounding media, then further investigation of the unit is warranted.

SWMU DATA SHEET

Page 1 of 2

SWMU NUMBER: 17

PHOTOGRAPH NUMBER: 17.1, 17.2, 17.3

NAME: Construction Debris Pile

TYPE OF UNIT: Waste Pile

PERIOD OF OPERATION: 1992

PHYSICAL DESCRIPTION AND CONDITION: The debris pile is located along the western fence line, north of the Covered Soil Pile (SWMU 13), the Uncovered Soil Pile (SWMU 14), the Construction Debris/Soil Pile (SWMU 21), and the Paint Can Excavation Drum Storage Area (SWMU 20). According to Dura-Bond representatives, the soil in this pile was bulldozed from the area where Balfour Beatty has constructed a concrete pad and is planning to erect a painting building.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: There is no information available that indicates that any hazardous wastes or hazardous constituents may be associated with this soil pile. However, an old, empty 55-gallon drum was visible in the pile at the time of the VSI. The land that was graded and is now covered by the concrete pad contained the former Blue Shed (SWMU 10) which was noted in the October 1990 FDER inspection. Many drums of unspecified material were open at the time of that inspection, and only a few were empty. Many containers were also noted inside the paint shed. The report stated that some of these drums appeared to contain fiberglass resin.

During the VSI it was observed that the pile contained old, rusted, misshapen 55-gallon drums. Some of these may have come from the Blue Shed (SWMU 10) area. It also contained blocks of concrete, lumber, tires, scrap metal, and torn and crushed 55-gallon storage drums. No residuals were noted in the drums. A small blue aboveground storage tank is located to the south of the pile and is labeled as "Scrap."

RELEASE PATHWAYS: Air (L) Surface Water (L) Soil (L)
 Ground Water (L) Subsurface Gas (L)

HISTORY AND/OR EVIDENCE OF RELEASE(S): No evidence of unpermitted releases was identified in the available file material or observed during the VSI.

SWMU DATA SHEET

Page 2 of 2

RECOMMENDATIONS: No Further Action (X)
 Confirmatory Sampling ()
 RFI Necessary ()

REFERENCE(S) : 100

COMMENTS: None.

SWMU DATA SHEET

Page 1 of 2

SWMU NUMBER: 18

PHOTOGRAPH NUMBER: 18.1, 18.2, 18.3

NAME: Storm Water System

TYPE OF UNIT: Underground Pipes

PERIOD OF OPERATION: Unknown to 1992

PHYSICAL DESCRIPTION AND CONDITION: During the VSI, a storm water sewer drain was located between the Covered Soil Pile (SWMU 13), the Uncovered Soil Pile (SWMU 14), and the Construction Debris/Soil Pile (SWMU 21) in the southwest corner of the property. There was evidence of surface water runoff to the drain from the Covered Soil Pile and the Uncovered Soil Pile. A second storm water drain is located approximately 30 feet south and 10 feet west of the Hazardous Materials/Waste Storage Area (SWMU 4). A third storm water drain is located on the east side of the main facility building near the western edge of the south parking lot. This storm water drain was clogged at the time of the VSI. There is evidence of a storm water outfall parallel to the midway point of the main facility building near the Construction Debris Pile (SWMU 17). The outfall is located on the Chatham Steel property to the west of Dura-Bond.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: No information was available from the facility or file materials regarding the possible release of wastes to the storm water system.

RELEASE PATHWAYS: Air (L) Surface Water (H) Soil (U)
Ground Water (U) Subsurface Gas (U)

HISTORY AND/OR EVIDENCE OF RELEASE(S): There was evidence of surface water runoff to the southwestern drain of this unit from the Covered Soil Pile (SWMU 13) and the Uncovered Soil Pile (SWMU 14). In addition, there is a Storm Water System (SWMU 18) grate located near the coal tar drums (solidified product material) on the western side of the main building and a grate on the eastern side of the main building near the support structure for one of the former Aboveground Storage Tanks (AOC B).

SWMU DATA SHEET

Page 2 of 2

RECOMMENDATIONS:

No Further Action ()
Confirmatory Sampling (*)
RFI Necessary ()

REFERENCE(S):

100

COMMENTS:

* Dura-Bond is awaiting the results of sampling performed on the segregated dirt piles from the excavation area. Surface water runoff from the vicinity of these piles may constitute a release of wastes to the Storm Water System (SWMU 18). In addition, the integrity of the Storm Water System (SWMU 18) and its layout is unknown. Confirmatory sampling is warranted and should include a survey of the system which identifies all influent and effluent points as well as an integrity determination.

SWMU DATA SHEET

Page 1 of 3

SWMU NUMBER: 19

PHOTOGRAPH NUMBER: 19.1, 19.2, 19.3, 19.4

NAME: Drainage Ditch

TYPE OF UNIT: Unlined Drainage Ditch

PERIOD OF OPERATION: 1987 to 1992

PHYSICAL DESCRIPTION AND CONDITION: The drainage ditch runs in a north-south direction to the east of the main facility building. It begins near the Wheelabrator® Dust Collector (SWMU 5) as level ground and gradually deepens as it approaches the north drive-through. Its maximum depth is approximately 1 to 1.5 feet deep. It varies in width from approximately one to three feet and is unlined. The corrugated metal culverts which are used under the drive-through and walkway areas were installed very recently, according to Mr. Norris.

South of the Compressor Area (AOC A), the water in the drainage ditch was a deep brown color with patches of light brown foam floating on the surface. According to the facility representative, this discoloration and foam was from recently applied top soil on the eastern bank, as seen in photograph 19.1 in Appendix B. The water in the ditch was very shallow and there was minimal flow. One side of the ditch is formed by a concrete wall for a few feet in this area, where it runs along the walkway for the office building. The ditch passes to the west of one of the former Underground and Aboveground Storage Tanks (AOC B) near the south parking lot. It becomes shallower and less defined toward the south of the property. The ditch ends at the southern side of the property line and discharges through a double concrete culvert which empties into the Highway Avenue drainage ditch through a double corrugated metal discharge pipe. A few rocks located near the water level of the Highway Avenue drainage ditch have a reddish tint from algal growth.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: There was evidence of Wheelabrator® dust around the Wheelabrator® Dust Collector (SWMU 5) which could runoff into this unit. The Compressor Area (AOC A) and Ramp Area (SWMU 7) are located adjacent to or in close proximity to the Drainage Ditch. The Drainage Ditch also receives ground-water discharge from the Wheelabrator® Sump (AOC C). According to the facility representatives, only ground

SWMU DATA SHEET

Page 2 of 3

water would be discharged to the ditch from the sump since the shot is removed and reused, the dust goes to the Wheelabrator® Dust Collector (SWMU 5), and the water collected is at a low point and is only the result of ground-water infiltration.

RELEASE PATHWAYS: Air (L) Surface Water (H) Soil (H)
 Ground Water (H) Subsurface Gas (U)

HISTORY AND/OR EVIDENCE OF RELEASE(S): The ditch begins on the north side of the facility near the Wheelabrator® Dust Collector (SWMU 5). The soil surface in this area is dark. According to Dura-Bond officials, sandblast residue from the outside sandblaster was used as fill in this area. This may have contained Black Beauty™, which is a by-product of the combustion of coal that is processed into an abrasive product. It typically is composed of fused ferro-alumino-silicate which is formed when molten slag is quenched in cold water. The end result is a coarse non-crystalline black glass. Black Beauty™ contains several hazardous constituents including antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium, and zinc. There is concern that Black Beauty™ could enter environmental media through runoff to surface water or leaching to ground water. The Compressor Area (AOC A) and Ramp Area (SWMU 7) are located adjacent to or in close proximity to the Drainage Ditch (SWMU 19).

RECOMMENDATIONS: No Further Action ()
 Confirmatory Sampling (*)
 RFI Necessary ()

REFERENCE(S): 100

COMMENTS: * The facility should determine the extent of any contamination to the ditch which may have resulted from any runoff or seepage from nearby operations, processes, and SWMUs or AOCs. The sandblast residue from the outside sandblaster was used as fill in this area. This may have contained Black Beauty™.

SWMU DATA SHEET

Page 3 of 3

The Compressor Area (AOC A) and Ramp Area (SWMU 7) are located adjacent to or in close proximity to the Drainage Ditch. If confirmatory sampling reveals that hazardous constituents are present in the surrounding media, then further investigation of this unit is warranted.

SWMU DATA SHEET

Page 1 of 2

SWMU NUMBER: 20

PHOTOGRAPH NUMBER: 20.1, 20.2

NAME: Paint Can Excavation Drum Storage Area

TYPE OF UNIT: Drum Storage Area

PERIOD OF OPERATION: 1992

PHYSICAL DESCRIPTION AND CONDITION: Approximately fifty 55-gallon drums were filled with soil from the Paint Cans Excavation Area (SWMU 12) and placed in the southwest corner of the facility near the Construction Debris Pile (SWMU 17). The drums were sealed and stored on wooden pallets in a row running east-west.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: According to Dura-Bond officials, at the time the Paint Cans Excavation Area (SWMU 12) was discovered, some of the five-gallon cans had ruptured and the soil around the paint cans was saturated with paint. The paint was recognized as red lead-based primer paint which Florida Steel once used on some of its Department of Transportation projects. Mr. Elrod stated that 3.5 to 4 gallons of product were recovered from this area. Mr. Oliveros stated that the surrounding soils were contaminated with VOCs based on visual observations, odor, and high OVA readings. Within 24 hours of discovery of this unit, Missimer consultants took samples of the saturated soil and the surrounding cans. Samples were also taken of the runoff in contact with these wastes. The waste paint was containerized and stored onsite in the Paint Can Excavation Storage Area (SWMU 20). Sorbents were also applied to contain any remaining spill material. Approximately 50 drums were filled with potentially contaminated soil from the excavation pit and stored at this unit.

RELEASE PATHWAYS: Air (L) Surface Water (L) Soil (L)
 Ground Water (L) Subsurface Gas (L)

HISTORY AND/OR EVIDENCE OF RELEASE(S): According to Mr. Elrod, the paint cans were unearthed on April 8, 1992. On April 9, 1992, all of the paint cans had been containerized. By June 11, 1992, the two nearby soil piles had been created and the storage drums filled. Task Environmental of Tampa, Florida conducted the paint can removal.

SWMU DATA SHEET

Page 2 of 2

Sampling results of the paint sludge using a flame ionization detector indicated contamination at the following levels: 270,000 to 540,000 ppm lead; 500,000 to 680,000 ppb ethylbenzene; 2,900,000 to 3,300,000 ppb total xylenes; 1,800,000 ppb toluene; 760,000 ppb MEK; 24 ppm barium; and 53 ppm selenium. Sampling results for the standing water in this area indicate contamination at the following levels: 12 ppm lead; 350 ppm chromium; 8,000,000 ppb ethylbenzene; 145,837 ppm total petroleum hydrocarbons; and 22,000,000 ppb total xylenes. Sampling results for the surrounding soil showed contamination at the following levels: 2,000 ppm lead; 120 ppm barium; 72 ppm chromium; 22,000 ppb MEK; 61,000 ppb acetone; 390,000 ppb ethylbenzene; 49,000 ppb toluene; and 220,000 ppb total xylenes (References 99, 105). Sampling results are shown in Table III-1.

RECOMMENDATIONS: No Further Action (*)
 Confirmatory Sampling ()
 RFI Necessary ()

REFERENCE(S): 100, 101

COMMENTS: * The facility should comply with the 90 day storage limitation for nonpermitted storage units managing hazardous wastes.

SWMU DATA SHEET

Page 1 of 1

SWMU NUMBER: 21

PHOTOGRAPH NUMBER: 21.1

NAME: Construction Debris/Soil Pile

TYPE OF UNIT: Waste Pile

PERIOD OF OPERATION: 1987 to 1992

PHYSICAL DESCRIPTION AND CONDITION: This soil pile is located in the southwest corner of the facility near the 55-gallon drums at the Paint Can Excavation Drum Storage Area (SWMU 20). The pile is approximately 20 feet in diameter and nine feet high and is positioned directly on soil.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: The material contained in this pile was accumulated from the area near the western south drive-through, adjacent to the Paint Cans Excavation Area (SWMU 12). It contains surficial soil and other construction debris from the facility.

RELEASE PATHWAYS: Air (L) Surface Water (L) Soil (L)
Ground Water (L) Subsurface Gas (L)

HISTORY AND/OR EVIDENCE OF RELEASE(S): No evidence of unpermitted releases was identified in the available file material or observed during the VSI.

RECOMMENDATIONS: No Further Action (X)
Confirmatory Sampling ()
RFI Necessary ()

REFERENCE(S): 20, 100

COMMENTS: None.

SWMU DATA SHEET

Page 1 of 2

SWMU NUMBER: 22

PHOTOGRAPH NUMBER: 2.1

NAME: Dumpster

TYPE OF UNIT: Dumpster

PERIOD OF OPERATION: 1987 to 1992

PHYSICAL DESCRIPTION AND CONDITION: This unit is located in the central portion of the facility on the west side of the main facility building. Approximately 1000 rags used for cleaning paint guns and equipment with MEK solvent were disposed each month in this unit. The rags were consequently classified as F005 waste. This unit is now used to dispose of general facility refuse. During the VSI, no rags were observed in this unit. This dumpster is located within an area approximately 20 feet long by 20 feet wide that was identified as a SWMU (Area Immediately Adjacent to Dumpster - SWMU 2) in Dura-Bond's Closure Permit Application. In addition, MEK/paint waste was allegedly discharged to the ground in the Area Immediately Adjacent to the Dumpster (SWMU 2). In an October 1990 inspection report, FDER officials noted the presence of approximately ten drums and numerous smaller containers in the vicinity of this unit.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: Employees disposed of MEK and paint contaminated rags by discarding them in the dumpster. The rags were consequently classified as F005 waste. According to the available file material, Dura-Bond contracted Industrial Services to dispose of the contaminated waste rags.

RELEASE PATHWAYS: Air (L) Surface Water (L) Soil (L)
Ground Water (L) Subsurface Gas (U)

HISTORY AND/OR EVIDENCE OF RELEASE(S): No evidence of unpermitted releases from this unit was identified in the available file material or observed during the VSI. No rags were observed during the VSI.

SWMU DATA SHEET

Page 2 of 2

RECOMMENDATIONS:

No Further Action (*)
Confirmatory Sampling ()
RFI Necessary ()

REFERENCE(S):

20, 28, 29, 100

COMMENTS:

* This unit is addressed under the Area
Immediately Adjacent to Dumpster (SWMU 2).

AOC DATA SHEET

Page 1 of 1

AOC: A

PHOTOGRAPH NUMBER: A.1, A.2

NAME: Compressor Area

TYPE OF UNIT: Process Area

PERIOD OF OPERATION: Unknown to 1992

PHYSICAL DESCRIPTION AND CONDITION: The compressor area is located approximately 15 feet east of the main facility building near the office buildings. This area lies approximately five feet west of the drainage ditch. The compressor is situated on a raised concrete pad which is covered by a roof.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: At the time of the VSI, there was a 55-gallon drum labeled "Oil - Dry" on the south ledge of the structure.

RELEASE PATHWAYS: Air (L) Surface Water (L) Soil (L)
Ground Water (L) Subsurface Gas (U)

HISTORY AND/OR EVIDENCE OF RELEASE(S): Ms. Fellabaum of the FDER stated in the October 1990 FDER hazardous waste inspection report that an oil leak was spreading onto soil in a northeast-southwest direction adjacent to the compressor area, as seen in FDER photograph A.2 in Appendix C. The leak involved only minor surficial staining. It was reportedly cleaned up following its detection. This oil is viscous and may not penetrate into the surrounding soil. It may also degrade relatively quickly. During the VSI, only minor staining was observed which did not appear to warrant further investigation.

RECOMMENDATIONS: No Further Action (*)
Confirmatory Sampling ()
RFI Necessary ()

REFERENCE(S): 20, 100

COMMENTS: * No sampling is required, however, the facility should repair the source of the leak to prevent further releases.

AOC DATA SHEET

Page 1 of 3

AOC: B

PHOTOGRAPH NUMBER: See 6.1, 7.2

NAME: Underground and Aboveground Storage Tanks

TYPE OF UNIT:

PERIOD OF OPERATION: Unknown to 1989

PHYSICAL DESCRIPTION AND CONDITION: According to FDER and Dura-Bond records, there were, as recently as June 1991, a total of seven tanks, three aboveground and four below ground storage tanks, on the Dura-Bond property. Information provided by Dura-Bond, state, and city files is unclear as to each tank's exact location, capacity, and use. The approximate locations of three of the underground tanks and one of the aboveground tanks are shown in Figure II-8 on page II-33.

A FDER inspector's report noted that one of the aboveground tanks was in contact with the ground. A July 1989 FDER Pollutant Storage Tank Inspection Report noted several recordkeeping and monitoring violations for Dura-Bond's storage tanks. In addition, it was noted that the tanks numbered 1, 2, 3, and 5 were abandoned. According to the report, FDER was not notified of the abandonment and there were no records documenting the tank inventory. Furthermore, the excavation areas for the four tanks were not backfilled.

All of the underground storage tanks had been removed by June 21, 1991. Tank 1 was located immediately south of the north drive-through, near the Ramp Area (SWMU 7). Tank 2 was located between the office buildings, to the north. In June 1991, Dura-Bond also indicated that tanks 4 and 7 would be removed. Tank 7 was the aboveground tank which was in contact with the ground. Tank 4 was an aboveground tank located to the east of the main facility building between the south drive-through and the office building. According to Mr. Norris, Tank 4 was a former 15-ton storage tank which resembled a large railroad tanker. He said that this tank was cut up and removed prior to 1989.

On June 21, 1992, a representative from Missimer & Associates detected filtered and unfiltered OVA levels greater than 1000 ppm in borings adjacent to Tank 2 near the office building. In addition, unfiltered OVA levels of 20 ppm and 28 ppm, and filtered OVA levels of 10 ppm and 18 ppm were detected near Tank 1 at the Ramp Area (SWMU 7).

AOC DATA SHEET

Page 2 of 3

The underground tanks were removed by Bill Johns Waste Oil Service of Jacksonville. Three above-ground storage tanks built by Dura-Bond were removed by Dura-Bond in 1992 and transported for use at its Pennsylvania facility. At the time of the VSI, there was a white aboveground storage tank which was built by Dura-Bond located between the Temporary Waste Storage Area (SWMU 3) and the Area Immediately Adjacent to the Dumpster (SWMU 2). It was installed by Dura-Bond in 1991.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: According to documents provided by the facility, Dura-Bond registered four petroleum tanks with FDER from 1988 to 1989, two from 1989 to 1991, and one from 1991 to 1992. According to facility representatives, the underground storage tanks existed on the property when the company purchased the facility in 1987. Dura-Bond stated that it had no use for the tanks and was not given any records for them when it bought the property. No other information is available regarding the underground storage tanks.

RELEASE PATHWAYS: Air (L) Surface Water (L) Soil (L)
 Ground Water (L) Subsurface Gas (L)

HISTORY AND/OR EVIDENCE OF RELEASE(S): Field log book entries made by a representative of Missimer & Associates, Inc. during a sampling visit to take soil borings noted hydrocarbon odors in the soil surrounding tank 4. It was also noted that in one area adjacent to the tank, the boring hole was obstructed by a black tar like substance. Mr. Norris attributed the black substance that was encountered to the presence of asphalt from a buried section of the parking lot. Soil borings taken near tank 2 also revealed a very strong hydrocarbon odor according to the log book entries. No unpermitted releases from any of the tanks were identified in the available file material or observed during the VSI.

RECOMMENDATIONS: No Further Action ()
 Confirmatory Sampling (*)
 RFI Necessary ()

AOC DATA SHEET

Page 3 of 3

REFERENCE(S): 20, 99, 100, 104

COMMENTS: * The facility should determine the extent of any leakage from tanks 1, 2, and 4. If confirmatory sampling reveals that hazardous constituents are present in the surrounding media, then further investigation of these units is warranted.

AOC DATA SHEET

Page 1 of 2

AOC: C

PHOTOGRAPH NUMBER: C.1, C.2

NAME: Wheelabrator® Sump

TYPE OF UNIT: Process Sump

PERIOD OF OPERATION: Unknown to 1992

PHYSICAL DESCRIPTION AND CONDITION: During the VSI, a green garden hose was observed emanating from the ground immediately south of the Wheelabrator® Dust Collector (SWMU 5) on the eastern side of the main facility building. The hose was positioned to discharge to the Drainage Ditch (SWMU 19). According to Mr. Norris, the hose is probably connected to a sump in the Wheelabrator® unit inside the main building which removes ground water from the concrete sump of the Wheelabrator® (the base of the Wheelabrator® is below the ground-water level). He stated that the Wheelabrator® residue is light, and, therefore, was vacuumed into the baghouse and collected in 55-gallon drums rather than being released to this sump. Any steel shot or grit that fell into the sump area could be shoveled and collected for reuse. Because no residual dust reportedly entered the unit, the sump is not a SWMU.

WASTES AND/OR HAZARDOUS CONSTITUENTS MANAGED: According to Mr. Norris, the lighter Wheelabrator® residue was collected through the baghouse venting system. Any shot or grit that may have fallen into the sump area was shoveled and collected for reuse. Therefore, only ground water was discharged to the drainage ditch through the hose.

RELEASE PATHWAYS: Air (L) Surface Water (H) Soil (H)
 Ground Water (H) Subsurface Gas (U)

HISTORY AND/OR EVIDENCE OF RELEASE(S): No evidence of unpermitted releases was identified in the available file material or observed during the VSI.

AOC DATA SHEET

Page 2 of 2

RECOMMENDATIONS: No Further Action (X)
 Confirmatory Sampling ()
 RFI Necessary ()

REFERENCE(S): 20, 100

COMMENTS: None

IV. SUMMARY

Chapter IV consists of five tables identifying the SWMUs and AOCs identified during the VSI conducted on June 25, 1992. Table IV-1 lists all the SWMUs and AOCs identified during the VSI. Table IV-2 is a list of SWMUs requiring no further action at this time and Table IV-3 lists the RCRA-regulated units. Table IV-4 is a list of SWMUs requiring confirmatory sampling, and Table IV-5 identifies the units requiring a RFI. The sampling strategy is presented in Chapter V.

Table IV-1

List of all Solid Waste Management Units (SWMUs)
and Areas of Concern (AOCs)

| <u>SWMU NUMBER</u> | <u>SWMU NAME</u> |
|--------------------|--|
| 1. | Area Adjacent to West Side of Main Facility Building |
| 2. | Area Immediately Adjacent to Dumpster |
| 3. | Temporary Waste Storage Area |
| 4. | Hazardous Materials/Waste Storage Area |
| 5. | Wheelabrator® Dust Collector |
| 6. | Waste Oil Tank |
| 7. | Ramp Area |
| 8. | Sandblast Residue Fill Area |
| 9. | Historical Outside Storage Area |
| 10. | Blue Shed |
| 11. | Sheet Metal Building |
| 12. | Paint Cans Excavation Area |
| 13. | Covered Soil Pile |
| 14. | Uncovered Soil Pile |
| 15. | Shot Blast Drum Storage Area |
| 16. | Sandblast Area |
| 17. | Construction Debris Pile |
| 18. | Storm Water System |
| 19. | Drainage Ditch |
| 20. | Paint Can Excavation Drum Storage Area |
| 21. | Construction Debris/Soil Pile |
| 22. | Dumpster |
| <u>AOC</u> | <u>AOC NAME</u> |
| A. | Compressor Area |
| B. | Underground and Aboveground Storage Tanks |
| C. | Wheelabrator® Sump |

Table IV-2

List of SWMUs and AOCs Requiring No Further Action

| <u>SWMU NUMBER</u> | <u>SWMU NAME</u> |
|--------------------|--|
| 1. | Area Adjacent to West Side of Main Facility Building |
| 2. | Area Immediately Adjacent to Dumpster |
| 10. | Blue Shed |
| 11. | Sheet Metal Building |
| 15. | Shot Blast Drum Storage |
| 17. | Construction Debris Pile |
| 20. | Paint Can Excavation Drum Storage Area |
| 21. | Construction Debris Soil Pile |
| 22. | Dumpster |
| <u>AOC</u> | <u>AOC NAME</u> |
| A. | Compressor Area |
| C. | Wheelabrator® Sump |

Table IV-3

List of SWMUs and AOCs that are RCRA-Regulated Units

| <u>SWMU NUMBER</u> | <u>SWMU NAME</u> |
|--------------------|--|
| 1. | Area Adjacent to West Side of Main Facility Building |
| 2. | Area Immediately Adjacent to Dumpster |

Table IV-4

List of SWMUs and AOCs Requiring Confirmatory Sampling

| <u>SWMU NUMBER</u> | <u>SWMU NAME</u> |
|--------------------|---|
| 3. | Temporary Waste Storage Area |
| 4. | Hazardous Materials/Waste Storage Area |
| 5. | Wheelabrator® Dust Collector |
| 6. | Waste Oil Tank |
| 7. | Ramp Area |
| 8. | Sandblast Residue Fill Area |
| 9. | Historical Outside Storage Area |
| 13. | Covered Soil Pile |
| 14. | Uncovered Soil Pile |
| 16. | Sandblast Area |
| 18. | Storm Water System |
| 19. | Drainage Ditch |
| | |
| <u>AOC</u> | <u>AOC NAME</u> |
| B. | Underground and Aboveground Storage Tanks |

Table IV-5

List of SWMU Requiring an RFI

| <u>SWMU NUMBER</u> | <u>SWMU NAME</u> |
|--------------------|----------------------------|
| 12. | Paint Cans Excavation Area |

V. SUGGESTED SAMPLING STRATEGY

| Unit No. | Unit Name | Operational Dates | Suggested Sampling | Evidence of Release (Yes/No) |
|----------|--|-------------------|---|------------------------------|
| 3 | Temporary Waste Storage Area | 1987 to 1992 | Samples of the soil surrounding the concrete pad should be analyzed by SW846 Test Methods 8240 and 8270, as well as for total metals. | Yes |
| 4 | Hazardous Materials/Waste Storage Area | 1987 to 1992 | Soil samples should be taken along the outside edge of the storage area to determine if MEK was released to the ground during any of the processes which occurred here. There is no lip to contain spills on the concrete floor from draining to the soil outside. Samples should be analyzed by SW846 Test Methods 8240 and 8270, as well as for total metals. | Yes |
| 5 | Wheelabrator® Dust Collector | 1987 to 1992 | Soil samples should be taken in the area surrounding the concrete pad and analyzed by SW846 Test Methods 8240 and 8270, as well as for total metals. | Yes |
| 6 | Waste Oil Tank | Unknown to 1989 | Samples from the former tank area should be analyzed by SW846 Test Methods 8240 and 8270, as well as for total metals, since no sampling results are available from the time of excavation and removal. | No |
| 7 | Ramp Area | Unknown to 1992 | Samples of the soil surrounding the concrete pad should be analyzed by SW846 Test Methods 8240 and 8270, as well as for total metals. | Yes |

**V. SUGGESTED SAMPLING STRATEGY
(CONTINUED)**

| Unit No. | Unit Name | Operational Dates | Suggested Sampling | Evidence of Release (Yes/No) |
|-----------------|---------------------------------|--------------------------|---|-------------------------------------|
| 8 | Sandblast Residue Fill Area | 1987 to 1992 | Soil samples should be taken in the vicinity of the two fill areas for sandblast residue and analyzed by SW846 Test Methods 8240 and 8270, as well as for total metals. | Yes |
| 9 | Historical Outside Storage Area | 1987 to 1992 | Soil samples should be taken in the area surrounding the concrete pad and analyzed for by SW846 Test Methods 8240 and 8270, as well as for total metals. | Yes |
| 13 | Covered Soil Pile | 1992 | Samples from the pile and the surrounding area should be taken and analyzed by SW846 Test Methods 8240 and 8270, as well as for total metals. | Yes |
| 14 | Uncovered Soil Pile | 1992 | Samples from the pile and the surrounding area should be taken and analyzed for by SW846 Test Methods 8240 and 8270, as well as for total metals. | Yes |
| 16 | Sandblast Area | 1987 to 1992 | Soil samples should be taken from the pile and in the area adjacent to the pile and analyzed for by SW846 Test Methods 8240 and 8270, as well as for total metals. | Yes |
| 18 | Storm Water System | Unknown to 1992 | Sampling should be conducted in the vicinity of the storm water system drains and analyzed by SW846 Test Methods 8240 and 8270, as well as for total metals. | Yes |

**V. SUGGESTED SAMPLING STRATEGY
(CONTINUED)**

| Unit No. | Unit Name | Operational Dates | Suggested Sampling | Evidence of Release (Yes/No) |
|----------|---|-------------------|---|------------------------------|
| 19 | Drainage Ditch | 1987 to 1992 | Soil and surface water samples should be taken along the drainage ditch and analyzed by SW846 Test Methods 8240 and 8270, as well as for total metals. Samples should be taken near the Wheelabrator® Dust Collector (SWMU 5), the Ramp Area (SWMU 7) and Tank #4 - one of the Aboveground Storage Tanks (AOC C). | Yes |
| AOC B | Underground and Aboveground Storage Tanks | Unknown to 1989 | Soil samples should be taken in the area adjacent to each former under ground and aboveground storage tank and analyzed by SW846 Test Methods 8240 and 8270, as well as total for metals. | Yes |

VI. REFERENCES

1. U.S. Department of Agriculture - Soil Survey of City of Jacksonville, Duval County, Florida, May 1978.
2. Letter from G.E. Tobey, Dura-Bond Protective Coating Co., Inc., to John Peavy, Florida Department of Environmental Regulation (FDER), RE: Blueprints of Dura-Bond, June 9, 1988.
3. Letter from Michael Redig, FDER, to Kevin Hill, Dura-Bond, RE: Small quantity generator Notification of Hazardous Waste Activity. June 21, 1988.
4. Letter of receipt of payment from Thomas O'Pryler for the hauling and disposing of drum, August 25, 1988.
5. FDER Motor Fuel Tank Registration for Dura-Bond, 1989-1990.
6. Notes from plant visit concerning Dion Polyester Resin - 100 drums, February 10, 1989.
7. Letter from W.E.A. Struch, Koppers, Facsimile Message Sheet to Mike Reuder, FDER, RE: Polyester Resin DION ISO, February 13, 1989.
8. Letter from L.J. Farine, Koppers, Facsimile Message Sheet to Mike Reuder, FDER, RE: Polyester Resin DION ISO, February 14, 1989.
9. Letter from R.M. Walters, FRP Supply, to Mike Reuder, FDER, RE: Saling of drums to Dura-Bond, February 20, 1989.
10. State of Florida Corporate Document for Dura-Bond, February 20, 1989.
11. Notes from plant visit concerning the moving of drums by Buffalo Tank, February 20, 1989.
12. FDER Telephone Conversation Record from Jim Batter, RE: Drums moved by Dura-Bonds hauler, February 24, 1989.
13. Notice to Correct Source of Pollution/Violation to Dura-Bond, July 24, 1989.
14. Letter from Kevin Hill, Dura-Bond, to Alan Obaigbena, Department of Health, Welfare & Bio-Environmental Services, RE: Recent inspection of underground storage tanks, July 28, 1989.

15. Letter from Alan G. Obaigbena, Department of Health, Welfare & Bio-Environmental Services, to Kevin Hill, Dura-Bond, RE: Removal of underground tanks, August 2, 1989.
16. FDER Storage Tank Notification Form for Dura-Bond, August 7, 1989.
17. Purchase Order from Dura-Bond to Gartner Rag, Co., March 1, 1990.
18. FDER - Inspection Form - Aboveground Tank Section, April 10, 1990.
19. Hazardous Waste Site Inspection Unit Interview Summary for Dura-Bond, October 22, 1990.
20. Letter from Ernest Frey, FDER, to Hiram Jones, Dura-Bond, RE: High Priority Hazardous Waste Violations. December 5, 1990.
21. Correspondence from Larry Morgan, FDER, to Dale Twachtmann, FDER, RE: Legal Sufficiency Review of Civil Penalty Authorization Memo Dura-Bond Protective Coating. December 21, 1990.
22. Correspondence from Danny Waters, Dura-Bond, to Mr. Hall, RE: Wheelabrator® Dust Collector - 12 ton per year, January 9, 1991.
23. Letter from Phillip Moffses, Chemical Conservation Corporation, to Hiram Jones, Dura-Bond Steel Corp., RE: Pick-up and transport hazardous waste. January 9, 1991.
24. Letter from Hiram Jones, Dura-Bond Steel Corp., to Pamela Fellabaum, FDER, RE: Sold two drums of material to Bob Mathews Construction Company. January 10, 1991.
25. Inspection of Dura-Bond for permitting requirements, January 11, 1991.
26. Letter from Hiram Jones, Dura-Bond Steel Corp., to Pamela Fellabaum, FDER, RE: Safety Meetings. January 14, 1991.
27. Letter from Hiram Jones, Dura-Bond Steel Corp., to Pamela Fellabaum, FDER, RE: Letter to Dura-Bond Protective Coating Co., Inc. January 15, 1991.
28. Letter from Nick LaDuca, Industrial Services, to Hiram Jones, Dura-Bond, RE: Shop towel service, January 15, 1991.

29. Letter from Hiram Jones, Dura-Bond Steel Corp., to Pamela Fellabaum, FDER, RE: Purchase Order issues to Industrial Services. January 16, 1991.
30. Letter from Hiram Jones, Dura-Bond Steel Corp., to Pamela Fellabaum, FDER, RE: Inventory sheets. January 18, 1991.
31. Letter from Hiram Jones, Dura-Bond Steel Corp., to Pamela Fellabaum, FDER, RE: Revised inventory. January 22, 1991.
32. Letter from Hiram Jones, Dura-Bond Steel Corp., to Pamela Fellabaum, FDER, RE: Tour of plant. January 23, 1991.
33. Letter from Michael Redig, FDER, to Kevin Hill, Dura-Bond Steel Corp., RE: Name change for Dura-Bond. January 24, 1991.
34. Letter from Hiram Jones, Dura-Bond Steel Corp., to Pamela Fellabaum, FDER, RE: Uniform Hazardous Waste Manifest. January 29, 1991.
35. Carboline - Material Safety Data Sheet for BITUMASTIC 300M Part A, January 29, 1991.
36. Letter from Danny Waters, Dura-Bond Steel Corp., to Pamela Fellabaum, FDER, RE: Sold 56 drums of material to Chatham Steel. February 1, 1991.
37. Correspondence from Geraldine Robbins, RSDI Environmental, Inc., to Pamela Fellabaum, FDER, RE: Soil Assessment Plan - Dura-Bond Protective Coating Company. February 5, 1991.
38. Correspondence from Geraldine Robbins, RSDI Environmental, Inc., to Pamela Fellabaum, FDER, RE: Revised Soil Assessment Plan - Dura-Bond Protective Coating Company. February 6, 1991.
39. Correspondence from Geraldine Robbins, RSDI Environmental, Inc., to Pamela Fellabaum, FDER, RE: Approx. Soil Sample Locations. February 6, 1991.
40. Correspondence from Danny Waters, Dura-Bond Protective Coating Company, to Pamela Fellabaum, FDER, RE: Pam Chatham Associated Iron & Metal, Inc. would not buy drums. February 2, 1991.
41. Correspondence from Geraldine Robbins, RSDI Environmental, Inc., to Pamela Fellabaum, FDER, RE: Revised Soil Assessment Plan. February 6, 1991.

42. Correspondence from Geraldine Robbins, RSDI Environmental, Inc., to Pamela Fellabaum, FDER, RE: Certificate of Analysis. February 15, 1991.
43. Letter from Michael Redig, FDER, to Hiram Jones, Dura-Bond Steel Corp., RE: Application for a hazardous waste DER/EPA I.D. Number. February 14, 1991.
44. Correspondence from Hiram Jones, Dura-Bond Steel Corp., to Pamela Fellabaum, FDER, RE: Tests results from Geraghty and Miller. February 28, 1991.
45. Letter from Pamela Fellabaum, FDER, to Hiram Jones, Dura-Bond Steel Corp., RE: Correct classification of the waste MEK generated. February 28, 1991.
46. FDER vs. Dura-Bond, Consent Order, March 5, 1991.
47. Letter from Pamela Fellabaum, FDER, to Hiram Jones, Dura-Bond Steel Corp., RE: Hazardous Waste Inspection. March 12, 1991.
48. Correspondence from Danny Waters, Dura-Bond Protective Coating, to Pamela Fellabaum, FDER, RE: Inventory of all 55-gallon drums. March 22, 1991.
49. Letter from Danny Waters, Dura-Bond Steel Corp., to Pamela Fellabaum, FDER, RE: Violation 40 CFR 262.11. April 2, 1991.
50. Letter from Danny Waters, Dura-Bond Steel Corp., to Pamela Fellabaum, FDER, RE: Shipment of 26 drums of material to Chemical Conservation Corporation. April 23, 1991.
51. FDER Pollutant Storage Tank System Inspection Report Form for Dura-Bond, June 21, 1991.
52. Letter from Hiram Jones, Dura-Bond, to Alan Obaigbena, Department of Health, Welfare & Bio-Environmental Services, RE: Notice to Correct Source of Pollution/Violation, July 3, 1991.
53. Letter from James Manning, Department of Health, Welfare & Bio-Environmental Services, to Dura-Bond, RE: Cease and Desist Citation, July 29, 1991.
54. Correspondence from Hiram Jones, Dura-Bond, to Tim Griffin, Dan Roush, Grace Tobey, Dura-Bond, RE: Ordering of paint with VOC's, July 30, 1991.

55. Correspondence from Bruce Crichton, Sherwin-Williams Company, to Hiram Jones, Dura-Bond, RE: Data pages (Primer & Finish), July 30, 1991.
56. FDER Application to Operate/Construct Air Pollution Sources for Dura-Bond, July 31, 1991.
57. VOC Calculations from Anchor Engineering, Inc. for Dura-Bond, July 31, 1991.
58. Letter from Wayne Norris, Dura-Bond, RE: Authorization for Anchor Engineering to represent Dura-Bond in obtaining construction and operation permits, August 5, 1991.
59. Letter from Ronald Bongiovanni, Anchor Engineering, Inc., to James Manning, Department of Health, Welfare & Bio-Environmental Services, RE: Cease and Desist Citation, August 6, 1991.
60. Letter from James Manning, Dept. of Health, Welfare & Bio-Environmental Services, to Ronald Bongiovanni, Anchor Engineering, Inc., RE: Operation without a permit, August 23, 1991.
61. Correspondence from Pamela Fellabaum, FDER, to Merlin Russell, FDER, RE: Dura-Bond Steel Corp. September 4, 1991.
62. Letter from Sidney Ansbacher, Brant, Moore, Sapp, MacDonald & Wells, to Vicky Valade, FDER, RE: Dura-Bond adv. DER. September 5, 1991.
63. Letter from Hiram Jones, Dura-Bond, to Jerry Woosley, Department of Health, Welfare & Bio-Environmental Services, RE: Attachment "A" - Projects Exceeding 3.5 VOC in Last Year, September 9, 1991.
64. Letter from Sidney Ansbacher, Brant, Moore, Sapp, MacDonald & Wells, to John Ingle, FDER, RE: Dura-Bond Steel Corp. September 13, 1991.
65. Letter from Sidney Ansbacher, Brant, Moore, Sapp, MacDonald & Wells, to John Ingle, FDER, RE: Dura-Bond Steel adv. FDER. September 18, 1991.
66. Permit Review Sheet for Dura-Bond, September 24, 1991.
67. Department of Health, Welfare & Bio-Environmental Services Certification for Dura-Bond's Spray Painting and Blasting Operation, September 26, 1991.

68. FDER vs. Dura-Bond - Modification to Consent Order, October 7, 1991.
69. Letter from James Manning, Department of Health, Welfare & Bio-Environmental Services, to Hiram Jones, Dura-Bond, RE: Exceeding the RACT emission limiting standards for VOC, October 18, 1991.
70. Letter from Joseph Fleischmann, Dura-Bond, to James Manning, Department of Health, Welfare & Bio-Environmental Services, RE: Citation and Consent Order, October 30, 1991.
71. Letter from Joe Fleischmann, Dura-Bond Steel Corp., to Senator Connie Mack, United States Senate, RE: Complaint of the FDER. October 31, 1991.
72. Letter from Sidney Ansbacher, Brant, Moore, Sapp, MacDonald & Wells, to Mike Fitzsimmons, FDER, RE: Dura-Bond. November 4, 1991.
73. Phone Conversation Record from Joe Fleischmann, Dura-Bond, RE: Consent Order/Permit Requirements, November 6, 1991.
74. FDER vs. Dura-Bond, Consent Order - Operation of Air Pollution Sources Without a Permit, November 12, 1991.
75. FDER vs. Dura-Bond, Order Adopting Consent Order, November 12, 1991.
76. Letter from Sidney Ansbacher, Brant, Moore, Sapp, MacDonald & Wells, to Lorraine Clark, FDER, RE: Insurance Related for RCRA Application/Dura-Bond Steel Corp. November 21, 1991.
77. Letter from James Manning, Department of Health, Welfare & Bio-Environmental Services, to Hiram Jones, Dura-Bond, RE: Consent Order and JEPB Order for settlement, November 21, 1991.
78. Letter from Ernest Frey, FDER, to Ronald Bongiovanni, Anchor Engineering, Inc., RE: Notice of Permit to construct the subject air pollution source, November 27, 1991.
79. Draft letter from C. Lardner and J. Elias, FDER, to Senator Ander Crenshaw, Senate Office Building, Tallahassee, Florida, RE: Inspection of Dura-Bond Steel Corp. December, 1991.
80. Observation Sheet for Dura-Bond, January 17, 1992.
81. Letter from Darryl Dayson, Enviropact, to Ronald Bongiovanni, Anchor Engineering, Inc., RE: Results from the visible emissions test, January 24, 1992.

82. FDER Air Pollution Sources Certificate of Completion of Construction for Dura-Bond, January 24, 1992.
83. Letter from William Beeson, Missimer & Associates, Inc., to Vicky Valade, FDER, RE: Dura-Bond Steel Corp. Closure permit application. January 27, 1992.
84. Correspondence from Anchor Engineering, Inc., to Darrel Hall, Department of Health, Welfare & Bio-Environmental Services, RE: Air Pollution Sources Certificate of Completion of Construction, January 28, 1992.
85. AQD VE Test Review for Dura-Bond, January 29, 1992.
86. Payment for Air Pollution Application Review fees from Dura-Bond, January 31, 1992.
87. Application Tracking System for Dura-Bond, February 3, 1992.
88. Permit Review Sheet for Dura-Bond - Spray painting and blasting operation, April 6, 1992.
89. Letter from Sidney Ansbacher, Brant, Moore, Sapp, MacDonald & Wells, to Roderick Shaw, Esquire, RE: Dura-Bond demands cost recovery from former owner Florida Steel. April 9, 1992.
90. Letter from Sidney Ansbacher, Brant, Moore, Sapp, MacDonald & Wells, to Mike Fitzsimmons, FDER, RE: Dura-Bond demands cost recovery from former owner Florida Steel. April 9, 1992.
91. Certification for Dura-Bond - Spray Painting and Blasting Operation, April 14, 1992.
92. Hazardous Waste Facility Closure - Permit Application for Dura-Bond, April 21, 1992.
93. FDER Pollution Storage Tank System Inspection Report Form for Dura-Bond, April 23, 1992.
94. Letter from Grace Tobey, Dura-Bond Steel Corp., to Pamela Fellabaum, FDER, RE: Shipment of 17 drums of material to Chemical Conservation Corporation. May 8, 1992.
95. Dura-Bond Violation - Land Disposal of hazardous waste without a permit, undated.
96. Dura-Bond Violation - Facility disposing of F005 Waste Rags in dumpster, undated.
97. Dura-Bond Violation - Container requirements, undated.

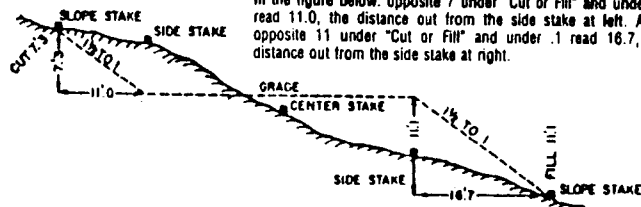
98. FDER State of the Environment, Ground Water Quality Monitoring Network, undated.
99. VSI Notification Letter Information Needs material provided by John Elrod, Missimer & Associates, Inc., June 25, 1992.
100. VSI Logbook, kept by David Kassel, A.T. Kearney, Inc., June 25, 1992.
101. VSI Logbook, kept by Phebe Davol, A.T. Kearney, Inc., June 25, 1992.
102. Additional Information Needs material provided by John Elrod, Missimer & Associates, Inc., July 1, 1992.
103. Fax from David Dorrow, Reed Minerals, to Phebe Davol, A.T. Kearney, Inc., RE: Black Beauty abrasive material. July 8, 1992.
104. Telephone Conversation Record from David Kassel, A.T. Kearney, Inc., to Wayne Norris, Dura-Bond, RE: Additional information needs, July 10, 1992.
105. Telephone Conversation Record From David Kassel, A.T. Kearney, Inc. to John Elrod, Missimer & Associates, Inc., RE: Sampling Results, July 14, 1992.
106. Fax From John Elrod, Missimer & Associates, Inc., to Phebe Davol, A.T. Kearney, Inc., RE: Wheelabrator® Dust sampling results, July 23, 1992.

APPENDIX A
VSI LOG BOOKS

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



| Cut or Fill | Distance out from Side or Shoulder Stake | | | | | | | | | | Cut or Fill |
|-------------|--|------|------|------|------|------|------|------|------|------|-------------|
| | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 0 | 0.0 | 0.2 | 0.3 | 0.5 | 0.6 | 0.8 | 0.9 | 1.1 | 1.2 | 1.4 | 0 |
| 1 | 1.5 | 1.7 | 1.8 | 2.0 | 2.1 | 2.3 | 2.4 | 2.6 | 2.7 | 2.9 | 1 |
| 2 | 3.0 | 3.2 | 3.3 | 3.5 | 3.6 | 3.8 | 3.9 | 4.1 | 4.2 | 4.4 | 2 |
| 3 | 4.5 | 4.7 | 4.8 | 5.0 | 5.1 | 5.3 | 5.4 | 5.6 | 5.7 | 5.9 | 3 |
| 4 | 6.0 | 6.2 | 6.3 | 6.5 | 6.6 | 6.8 | 6.9 | 7.1 | 7.2 | 7.4 | 4 |
| 5 | 7.5 | 7.7 | 7.8 | 8.0 | 8.1 | 8.3 | 8.4 | 8.6 | 8.7 | 8.9 | 5 |
| 6 | 9.0 | 9.2 | 9.3 | 9.5 | 9.6 | 9.8 | 9.9 | 10.1 | 10.2 | 10.4 | 6 |
| 7 | 10.5 | 10.7 | 10.8 | 11.0 | 11.1 | 11.3 | 11.4 | 11.6 | 11.7 | 11.9 | 7 |
| 8 | 12.0 | 12.2 | 12.3 | 12.5 | 12.6 | 12.8 | 12.9 | 13.1 | 13.2 | 13.4 | 8 |
| 9 | 13.5 | 13.7 | 13.8 | 14.0 | 14.1 | 14.3 | 14.4 | 14.6 | 14.7 | 14.9 | 9 |
| 10 | 15.0 | 15.2 | 15.3 | 15.5 | 15.6 | 15.8 | 15.9 | 16.1 | 16.2 | 16.4 | 10 |
| 11 | 16.5 | 16.7 | 16.8 | 17.0 | 17.1 | 17.3 | 17.4 | 17.6 | 17.7 | 17.9 | 11 |
| 12 | 18.0 | 18.2 | 18.3 | 18.5 | 18.6 | 18.8 | 18.9 | 19.1 | 19.2 | 19.4 | 12 |
| 13 | 19.5 | 19.7 | 19.8 | 20.0 | 20.1 | 20.3 | 20.4 | 20.6 | 20.7 | 20.9 | 13 |
| 14 | 21.0 | 21.2 | 21.3 | 21.5 | 21.6 | 21.8 | 21.9 | 22.1 | 22.2 | 22.4 | 14 |
| 15 | 22.5 | 22.7 | 22.8 | 23.0 | 23.1 | 23.3 | 23.4 | 23.6 | 23.7 | 23.9 | 15 |
| 16 | 24.0 | 24.2 | 24.3 | 24.5 | 24.6 | 24.8 | 24.9 | 25.1 | 25.2 | 25.4 | 16 |
| 17 | 25.5 | 25.7 | 25.8 | 26.0 | 26.1 | 26.3 | 26.4 | 26.6 | 26.7 | 26.9 | 17 |
| 18 | 27.0 | 27.2 | 27.3 | 27.5 | 27.6 | 27.8 | 27.9 | 28.1 | 28.2 | 28.4 | 18 |
| 19 | 28.5 | 28.7 | 28.8 | 29.0 | 29.1 | 29.3 | 29.4 | 29.6 | 29.7 | 29.9 | 19 |
| 20 | 30.0 | 30.2 | 30.3 | 30.5 | 30.6 | 30.8 | 30.9 | 31.1 | 31.2 | 31.4 | 20 |
| 21 | 31.5 | 31.7 | 31.8 | 32.0 | 32.1 | 32.3 | 32.4 | 32.6 | 32.7 | 32.9 | 21 |
| 22 | 33.0 | 33.2 | 33.3 | 33.5 | 33.6 | 33.8 | 33.9 | 34.1 | 34.2 | 34.4 | 22 |
| 23 | 34.5 | 34.7 | 34.8 | 35.0 | 35.1 | 35.3 | 35.4 | 35.6 | 35.7 | 35.9 | 23 |
| 24 | 36.0 | 36.2 | 36.3 | 36.5 | 36.6 | 36.8 | 36.9 | 37.1 | 37.2 | 37.4 | 24 |
| 25 | 37.5 | 37.7 | 37.8 | 38.0 | 38.1 | 38.3 | 38.4 | 38.6 | 38.7 | 38.9 | 25 |
| 26 | 39.0 | 39.2 | 39.3 | 39.5 | 39.6 | 39.8 | 39.9 | 40.1 | 40.2 | 40.4 | 26 |
| 27 | 40.5 | 40.7 | 40.8 | 41.0 | 41.1 | 41.3 | 41.4 | 41.6 | 41.7 | 41.9 | 27 |
| 28 | 42.0 | 42.2 | 42.3 | 42.5 | 42.6 | 42.8 | 42.9 | 43.1 | 43.2 | 43.4 | 28 |
| 29 | 43.5 | 43.7 | 43.8 | 44.0 | 44.1 | 44.3 | 44.4 | 44.6 | 44.7 | 44.9 | 29 |
| 30 | 45.0 | 45.2 | 45.3 | 45.5 | 45.6 | 45.8 | 45.9 | 46.1 | 46.2 | 46.4 | 30 |
| 31 | 46.5 | 46.7 | 46.8 | 47.0 | 47.1 | 47.3 | 47.4 | 47.6 | 47.7 | 47.9 | 31 |
| 32 | 48.0 | 48.2 | 48.3 | 48.5 | 48.6 | 48.8 | 48.9 | 49.1 | 49.2 | 49.4 | 32 |
| 33 | 49.5 | 49.7 | 49.8 | 50.0 | 50.1 | 50.3 | 50.4 | 50.6 | 50.7 | 50.9 | 33 |
| 34 | 51.0 | 51.2 | 51.3 | 51.5 | 51.6 | 51.8 | 51.9 | 52.1 | 52.2 | 52.4 | 34 |
| 35 | 52.5 | 52.7 | 52.8 | 53.0 | 53.1 | 53.3 | 53.4 | 53.6 | 53.7 | 53.9 | 35 |
| 36 | 54.0 | 54.2 | 54.3 | 54.5 | 54.6 | 54.8 | 54.9 | 55.1 | 55.2 | 55.4 | 36 |
| 37 | 55.5 | 55.7 | 55.8 | 56.0 | 56.1 | 56.3 | 56.4 | 56.6 | 56.7 | 56.9 | 37 |
| 38 | 57.0 | 57.2 | 57.3 | 57.5 | 57.6 | 57.8 | 57.9 | 58.1 | 58.2 | 58.4 | 38 |
| 39 | 58.5 | 58.7 | 58.8 | 59.0 | 59.1 | 59.3 | 59.4 | 59.6 | 59.7 | 59.9 | 39 |
| 40 | 60.0 | 60.2 | 60.3 | 60.5 | 60.6 | 60.8 | 60.9 | 61.1 | 61.2 | 61.4 | 40 |

Duro-Bond Steel Corporation
 #04-21-18
 140 Ellis Road
 Jacksonville, FL

Property of A.T. Kearney
 225 Reinckers Ln
 Alexandria, VA 22314
 703/548-4700

Site Visit conducted by:
 David Kassel
 Phoebe Davol
 Davey Simpson

The paper in this book is
 made of 50% high grade rag stock with
 a WATER RESISTING surface sizing.

1/2

Introductory Meeting - Sign in
David Berk

1984 May 4. Stillwater Amend
Spec EDA the authority to
address releases from various
other than regulated units.

In order to achieve this an
EPA or EPA Policy Assessment
(1) Performance unit is required
(2) Review of public input, and
discussions of state & federal
regulatory authorities.

2) The preliminary list of
solid waste management units
or areas of concern is
complete

3) A VST is performed to
visually assess these SWHUs
or AOCs. ~~Other~~ Good
com the first review and VST
demonstrates to the potential
for release to environment
(e.g. soil, gas, SW, air & ssg)
are made.

4) Based on these findings

OK FA 1/3

and following a review of the
the EPA, State, and Federal
agencies action may be expected.
This is conducted in the presence
of the sampling on the EPA
to determine the nature & extent
of contamination caused by the
release. A risk assessment
is conducted to determine
the contamination

5 H.T.S. cases - Hachet,
Gower, Steel for best &
the pollution are understood

1/4

8:40 AM Left hotel for site. Sunny w/ some clouds - winds (light) from South/Southwest - ~ 80°F

Met Wayne Norris of John H. Elnor, P.C.

Missimer & Associates Inc., Jacksonville, FL

Jim Oliver - Property owner, March 1, 1992 - personal advocate

Florida ~~State~~ is paying for cleanup of the paint can area.

John ~~present~~ provided map & responses

176 Closure req. by FL for USTs + DEL had already approved.

No requirement for soil sampling on USTs when removed. They have checked w/ CMT and no releases or leachate was detected.

1/5

High northwest of CVA at Redding oil tank. High thickness of material occurring under silos. -> This would be a nice farming area.

1955 - Bushnell Station (across from)

1955 - Unknown what was before - 1955 At the time there was an unknown well - possibly J-726.

R. Sanders Fire Insurance, Naples City of Port Hickman has Southern Fresh Corp

They wanted to buy the land. They wanted to build a new house. They wanted to build a new house. They wanted to build a new house. They wanted to build a new house.

1/10/57

Smallish area near underfoot
27 feet to ground and ground
with low lying areas

Smallish area at low steel
as this area is smallish
of ground

Medium & small spots of clear
steel, this steel is not "hard"

— Associated from 4 feet
now at 10 feet

Revised to the north
Channel

Buffer zone - makes LIST and have
Quoted from LIST, and and ground
Expected for water

STIP-3 Steel tank w/
and low and water protection

Allians are removed from page 2

Paul High CVA readings below
20 x 20

* Father 29 - hand
Largest copy of all Billings

Flinders Steel Reorganized House -
as shown for use for DCT

19705 - when these payments
were stopped

Alameda Park Steel Flinders Steel
used as possibly bridge etc. from

area to near an area in east
and area. Misses in independent files

as a work out area - especially
filled up with very small L.P. vehicles

part 1 - a handy work
6 - 8" steel frame

2nd last

xylene

Soil drums cans are supervised

expanding

Supplies of the liquid substance
from the house off - 1000/1000

Spurred. Low back and they
 exposed 4' deep
 3' 1/2' (1 gallon) of 1/2" diameter
 sewer. (Can't get 4' deep - got
 9' 2" up in 5' 1/2' deep
 Pit down adjacent to 1/2" sewer
 any spillage. 5 gallon cans (used)

Sewage goes to sewer line ->
 to City PETU
 slopwood water used on site,
 therefore no industrial wastewater
 is discharged.
 The used to be system for
 sanitary wastes. Trees growing out
 of it now.
 There is a 1/2" station to
 at 1/2" sewer.

7' layer of clay - covered 1/2" to
 15' thick surface

Maupine Shy Area
Photo 1-1 Very dark - like all from

Photo 1-2 Very SE at Tanager Bank
Sagittaria plants in foreground from
Maupine Shy Area

Photo 1-3 1-4 Very dark at
Maupine Shy Area.

Photo 1-5 for chicken water garden
Hillside very dark (like all)
at all 1/2 h 1/2 h 1/2 h 1/2 h
all dark.

July 1991 in water garden
are all at all water - all
dark.

15 June 1991 at White Lake
Red Bank out

Chamaecladus in the water garden
There are very plants at all
very all close to all

1/2 h 1/2 h 1/2 h 1/2 h

1/14

1/15

1/6 Tug with 2000
washed & chest collected
19 drums of 500 lb

1/7 Tug with 2000, 2000, 2000

1/8 + 1/9 Tug with 2000
Piled up 2000 (2000 lb)
milled (500 lb)

1/10 Tug with 2000
Tug with 2000

Epox paint 2000 lb
Tug with 2000

Fresh paint 2000 lb
Sent back to 2000

Paint with 2000
old paint

2 drums up to 30 drums
3-5 drums

2 drums new 2000

1/16

1/17

1/11 Feeding North at S. 1st St.
Black Bear

1/12 Feeding South at S. 1st St.
Dum Strong from 5-7 hours

1/13 Feeding South at S. 1st St. 4-6
lots of packing with 1st St. road
at 11-2

1/14 Feeding South at S. 1st St. 4-6
Red dum strong M.E. - 10-12

1/15 Feeding South at S. 1st St. 4-6
water 1 D.K.

1/16 Feeding South at S. 1st St. 4-6
water point 1st St. road
dirt 1st St. road
to gal/1st St. road
concrete - good

1/17 Feeding NW at S. 1st St. 4-6
1/18 Feeding SW at S. 1st St. 4-6

1/18

1/17

1/19 Ferry NE at 10:00 AM
Dinner 10:30 AM - 1:00 PM
Stomach Down in 10:00 AM

Need to look at Dinner

1/20 Ferry 5:00 AM - 4:00 PM

1/21 Ferry 5:00 AM - 4:00 PM
and 5:00 AM - 4:00 PM

1/22 Ferry 5:00 AM - 4:00 PM

1/23 Ferry 5:00 AM - 4:00 PM
The 5:00 AM - 4:00 PM

1/24 Ferry 5:00 AM - 4:00 PM

1/25 Ferry 5:00 AM - 4:00 PM
The 5:00 AM - 4:00 PM
The 5:00 AM - 4:00 PM

1/22

1/23

ethyl benzene
xylene
anthracene (TC band)
methyl styrene
Fluorene
5,7,9,10
2,4,6,8,10
540, 600 ppm lead
1500 ppm lead TC
Concentrated soil extract TC
extracts a water soluble
2nd soil pellet - benzene
red, OVA + visible
2-4 } Feeding extract of new born
2-5 } 2nd soil pellet
2-6 } Feeding extract of new born
2-7 } 2nd soil pellet - 1st - 2nd - 3rd
Granules

- 2-8 } Facing east of Thompson
2-9 } road. Like new
Standing
- 2-10 }
2-11 } Facing east of Thompson
2-12 } NE 1/4 Sec 10
2-13 }
- 2-14 } Facing N. 1/4 of section 10
2-15 } 3 appears to be a
2-16 } 3 appears to be a
2-17 } 3 appears to be a
2-18 } Facing NE of Thompson
2-19 } Facing SE of Thompson
2-20 } Facing SE of Thompson
2-21 } Facing SE of Thompson
2-22 } Facing SE of Thompson
2-23 } Facing SE of Thompson
2-24 } Facing SE of Thompson
2-25 } Facing SE of Thompson
2-26 } Facing SE of Thompson
2-27 } Facing SE of Thompson
2-28 } Facing SE of Thompson
2-29 } Facing SE of Thompson
2-30 } Facing SE of Thompson
2-31 } Facing SE of Thompson
2-32 } Facing SE of Thompson
2-33 } Facing SE of Thompson
2-34 } Facing SE of Thompson
2-35 } Facing SE of Thompson
2-36 } Facing SE of Thompson
2-37 } Facing SE of Thompson
2-38 } Facing SE of Thompson
2-39 } Facing SE of Thompson
2-40 } Facing SE of Thompson
2-41 } Facing SE of Thompson
2-42 } Facing SE of Thompson
2-43 } Facing SE of Thompson
2-44 } Facing SE of Thompson
2-45 } Facing SE of Thompson
2-46 } Facing SE of Thompson
2-47 } Facing SE of Thompson
2-48 } Facing SE of Thompson
2-49 } Facing SE of Thompson
2-50 } Facing SE of Thompson
2-51 } Facing SE of Thompson
2-52 } Facing SE of Thompson
2-53 } Facing SE of Thompson
2-54 } Facing SE of Thompson
2-55 } Facing SE of Thompson
2-56 } Facing SE of Thompson
2-57 } Facing SE of Thompson
2-58 } Facing SE of Thompson
2-59 } Facing SE of Thompson
2-60 } Facing SE of Thompson
2-61 } Facing SE of Thompson
2-62 } Facing SE of Thompson
2-63 } Facing SE of Thompson
2-64 } Facing SE of Thompson
2-65 } Facing SE of Thompson
2-66 } Facing SE of Thompson
2-67 } Facing SE of Thompson
2-68 } Facing SE of Thompson
2-69 } Facing SE of Thompson
2-70 } Facing SE of Thompson
2-71 } Facing SE of Thompson
2-72 } Facing SE of Thompson
2-73 } Facing SE of Thompson
2-74 } Facing SE of Thompson
2-75 } Facing SE of Thompson
2-76 } Facing SE of Thompson
2-77 } Facing SE of Thompson
2-78 } Facing SE of Thompson
2-79 } Facing SE of Thompson
2-80 } Facing SE of Thompson
2-81 } Facing SE of Thompson
2-82 } Facing SE of Thompson
2-83 } Facing SE of Thompson
2-84 } Facing SE of Thompson
2-85 } Facing SE of Thompson
2-86 } Facing SE of Thompson
2-87 } Facing SE of Thompson
2-88 } Facing SE of Thompson
2-89 } Facing SE of Thompson
2-90 } Facing SE of Thompson
2-91 } Facing SE of Thompson
2-92 } Facing SE of Thompson
2-93 } Facing SE of Thompson
2-94 } Facing SE of Thompson
2-95 } Facing SE of Thompson
2-96 } Facing SE of Thompson
2-97 } Facing SE of Thompson
2-98 } Facing SE of Thompson
2-99 } Facing SE of Thompson
2-100 } Facing SE of Thompson

| | |
|------|---|
| 2-21 | Close-up of soil & grasses in nest of white-bellied woodpecker |
| 2-22 | Young Nuthatch in nest - |
| 2-23 | Young Nuthatch in nest 4 weeks old fall of 22 |
| 2-24 | Young Nuthatch in nest 5 weeks old |
| 2-25 | Young Nuthatch in nest 6 weeks old |
| 2-26 | Young Nuthatch in nest 7 weeks old |
| 2-27 | Young Nuthatch in nest 8 weeks old |
| 2-28 | Young Nuthatch in nest 9 weeks old |
| 2-29 | Young Nuthatch in nest 10 weeks old |
| 2-30 | Young Nuthatch in nest 11 weeks old |
| 2-31 | Young Nuthatch in nest 12 weeks old |
| 2-32 | Young Nuthatch in nest 13 weeks old |
| 2-33 | Young Nuthatch in nest 14 weeks old |

1/28

1/29

10000 cl / cl / cl / cl / cl

2-35 10000 cl / cl / cl / cl / cl

3-1 10000 cl / cl / cl / cl / cl

3-2 10000 cl / cl / cl / cl / cl

3-3 10000 cl / cl / cl / cl / cl

3-4 10000 cl / cl / cl / cl / cl

3-5 10000 cl / cl / cl / cl / cl

3-6 10000 cl / cl / cl / cl / cl

3-7 10000 cl / cl / cl / cl / cl

3-8 10000 cl / cl / cl / cl / cl

3-9 10000 cl / cl / cl / cl / cl

3-10 10000 cl / cl / cl / cl / cl

3-11 10000 cl / cl / cl / cl / cl

3-12 10000 cl / cl / cl / cl / cl

3-13 10000 cl / cl / cl / cl / cl

1/30

1/31

John Steel working on
 the 5th Avenue
 road bridge. The
 concrete (pave) is
 being poured. The
 construction is
 being done.

U.S. Engineer, New
 York City
 St. John's
 St. John's
 St. John's

John Steel
 New York City
 New York City
 New York City

U.S. Engineer
 New York City
 New York City
 New York City

1/341

1/32

John with sand capped with
the water is low

Chase and meeting at 1612
discussed the history

3-9 discussed the history
of the San Juan Valley from 1800 to
1850

3-10 John with at 1612 met
Patrick from the Skunk Creek

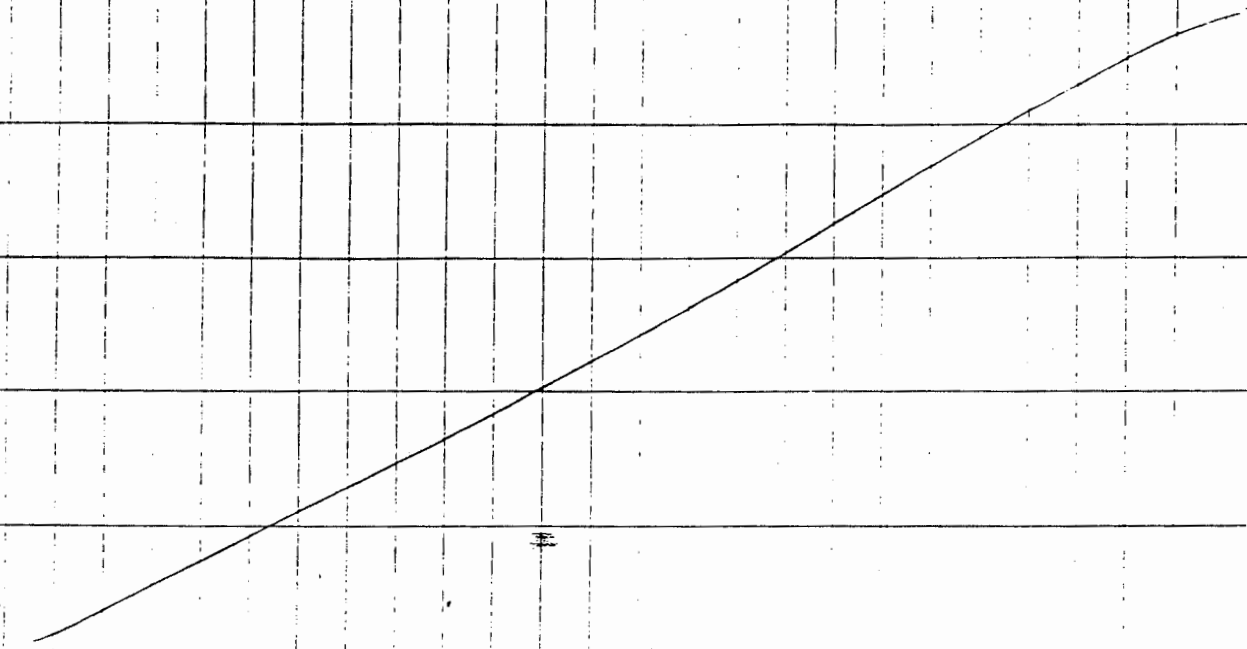
3-11 John with at 1612 met
Patrick from the Skunk Creek
Chase left

3-12 John with at 1612 met
Patrick from the Skunk Creek
Chase left

3-13 John with at 1612 met
Patrick from the Skunk Creek
Chase left

3-14 John with at 1612 met
Patrick from the Skunk Creek
Chase left

1/38

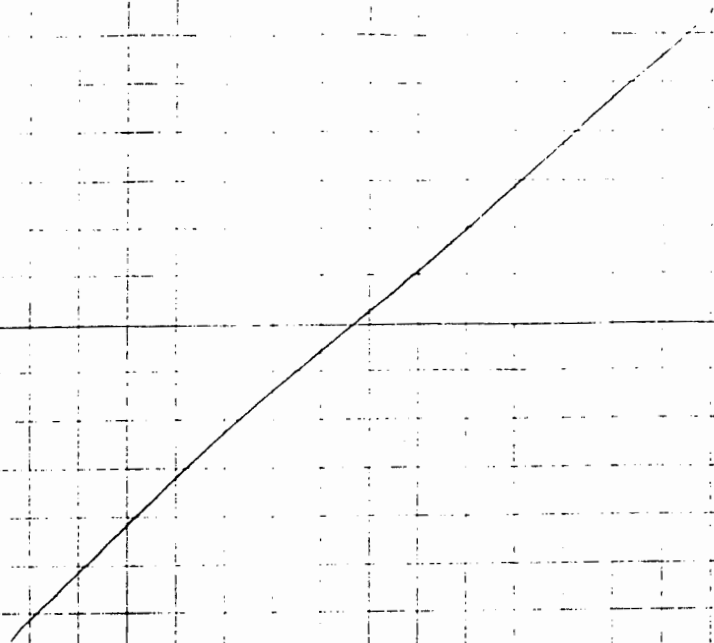


1/37

Have changed the order
of operations. Let's try the change
with 10000 plus minus with minus
sign. Left answer is 10000 - 41250

1830 4/25/92

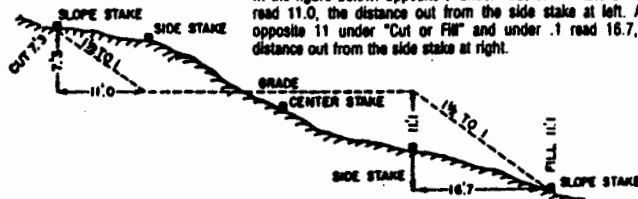
The Le Ranch



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



| Cut or Fill | Distance out from Side or Shoulder Stake | | | | | | | | | | Cut or Fill |
|-------------|--|------|------|------|------|------|------|------|------|------|-------------|
| | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
| 0 | 0.0 | 0.2 | 0.3 | 0.5 | 0.6 | 0.8 | 0.9 | 1.1 | 1.2 | 1.4 | 0 |
| 1 | 1.5 | 1.7 | 1.8 | 2.0 | 2.1 | 2.3 | 2.4 | 2.6 | 2.7 | 2.9 | 1 |
| 2 | 3.0 | 3.2 | 3.3 | 3.5 | 3.6 | 3.8 | 3.9 | 4.1 | 4.2 | 4.4 | 2 |
| 3 | 4.5 | 4.7 | 4.8 | 5.0 | 5.1 | 5.3 | 5.4 | 5.6 | 5.7 | 5.9 | 3 |
| 4 | 6.0 | 6.2 | 6.3 | 6.5 | 6.6 | 6.8 | 6.9 | 7.1 | 7.2 | 7.4 | 4 |
| 5 | 7.5 | 7.7 | 7.8 | 8.0 | 8.1 | 8.3 | 8.4 | 8.6 | 8.7 | 8.9 | 5 |
| 6 | 9.0 | 9.2 | 9.3 | 9.5 | 9.6 | 9.8 | 9.9 | 10.1 | 10.2 | 10.4 | 6 |
| 7 | 10.5 | 10.7 | 10.8 | 11.0 | 11.1 | 11.3 | 11.4 | 11.6 | 11.7 | 11.9 | 7 |
| 8 | 12.0 | 12.2 | 12.3 | 12.5 | 12.6 | 12.8 | 12.9 | 13.1 | 13.2 | 13.4 | 8 |
| 9 | 13.5 | 13.7 | 13.8 | 14.0 | 14.1 | 14.3 | 14.4 | 14.6 | 14.7 | 14.9 | 9 |
| 10 | 15.0 | 15.2 | 15.3 | 15.5 | 15.6 | 15.8 | 15.9 | 16.1 | 16.2 | 16.4 | 10 |
| 11 | 16.5 | 16.7 | 16.8 | 17.0 | 17.1 | 17.3 | 17.4 | 17.6 | 17.7 | 17.9 | 11 |
| 12 | 18.0 | 18.2 | 18.3 | 18.5 | 18.6 | 18.8 | 18.9 | 19.1 | 19.2 | 19.4 | 12 |
| 13 | 19.5 | 19.7 | 19.8 | 20.0 | 20.1 | 20.3 | 20.4 | 20.6 | 20.7 | 20.9 | 13 |
| 14 | 21.0 | 21.2 | 21.3 | 21.5 | 21.6 | 21.8 | 21.9 | 22.1 | 22.2 | 22.4 | 14 |
| 15 | 22.5 | 22.7 | 22.8 | 23.0 | 23.1 | 23.3 | 23.4 | 23.6 | 23.7 | 23.9 | 15 |
| 16 | 24.0 | 24.2 | 24.3 | 24.5 | 24.6 | 24.8 | 24.9 | 25.1 | 25.2 | 25.4 | 16 |
| 17 | 25.5 | 25.7 | 25.8 | 26.0 | 26.1 | 26.3 | 26.4 | 26.6 | 26.7 | 26.9 | 17 |
| 18 | 27.0 | 27.2 | 27.3 | 27.5 | 27.6 | 27.8 | 27.9 | 28.1 | 28.2 | 28.4 | 18 |
| 19 | 28.5 | 28.7 | 28.8 | 29.0 | 29.1 | 29.3 | 29.4 | 29.6 | 29.7 | 29.9 | 19 |
| 20 | 30.0 | 30.2 | 30.3 | 30.5 | 30.6 | 30.8 | 30.9 | 31.1 | 31.2 | 31.4 | 20 |
| 21 | 31.5 | 31.7 | 31.8 | 32.0 | 32.1 | 32.3 | 32.4 | 32.6 | 32.7 | 32.9 | 21 |
| 22 | 33.0 | 33.2 | 33.3 | 33.5 | 33.6 | 33.8 | 33.9 | 34.1 | 34.2 | 34.4 | 22 |
| 23 | 34.5 | 34.7 | 34.8 | 35.0 | 35.1 | 35.3 | 35.4 | 35.6 | 35.7 | 35.9 | 23 |
| 24 | 36.0 | 36.2 | 36.3 | 36.5 | 36.6 | 36.8 | 36.9 | 37.1 | 37.2 | 37.4 | 24 |
| 25 | 37.5 | 37.7 | 37.8 | 38.0 | 38.1 | 38.3 | 38.4 | 38.6 | 38.7 | 38.9 | 25 |
| 26 | 39.0 | 39.2 | 39.3 | 39.5 | 39.6 | 39.8 | 39.9 | 40.1 | 40.2 | 40.4 | 26 |
| 27 | 40.5 | 40.7 | 40.8 | 41.0 | 41.1 | 41.3 | 41.4 | 41.6 | 41.7 | 41.9 | 27 |
| 28 | 42.0 | 42.2 | 42.3 | 42.5 | 42.6 | 42.8 | 42.9 | 43.1 | 43.2 | 43.4 | 28 |
| 29 | 43.5 | 43.7 | 43.8 | 44.0 | 44.1 | 44.3 | 44.4 | 44.6 | 44.7 | 44.9 | 29 |
| 30 | 45.0 | 45.2 | 45.3 | 45.5 | 45.6 | 45.8 | 45.9 | 46.1 | 46.2 | 46.4 | 30 |
| 31 | 46.5 | 46.7 | 46.8 | 47.0 | 47.1 | 47.3 | 47.4 | 47.6 | 47.7 | 47.9 | 31 |
| 32 | 48.0 | 48.2 | 48.3 | 48.5 | 48.6 | 48.8 | 48.9 | 49.1 | 49.2 | 49.4 | 32 |
| 33 | 49.5 | 49.7 | 49.8 | 50.0 | 50.1 | 50.3 | 50.4 | 50.6 | 50.7 | 50.9 | 33 |
| 34 | 51.0 | 51.2 | 51.3 | 51.5 | 51.6 | 51.8 | 51.9 | 52.1 | 52.2 | 52.4 | 34 |
| 35 | 52.5 | 52.7 | 52.8 | 53.0 | 53.1 | 53.3 | 53.4 | 53.6 | 53.7 | 53.9 | 35 |
| 36 | 54.0 | 54.2 | 54.3 | 54.5 | 54.6 | 54.8 | 54.9 | 55.1 | 55.2 | 55.4 | 36 |
| 37 | 55.5 | 55.7 | 55.8 | 56.0 | 56.1 | 56.3 | 56.4 | 56.6 | 56.7 | 56.9 | 37 |
| 38 | 57.0 | 57.2 | 57.3 | 57.5 | 57.6 | 57.8 | 57.9 | 58.1 | 58.2 | 58.4 | 38 |
| 39 | 58.5 | 58.7 | 58.8 | 59.0 | 59.1 | 59.3 | 59.4 | 59.6 | 59.7 | 59.9 | 39 |
| 40 | 60.0 | 60.2 | 60.3 | 60.5 | 60.6 | 60.8 | 60.9 | 61.1 | 61.2 | 61.4 | 40 |

Dura-Bond Steel Cup

204-21-18

140 S Ellis Road

Jacksonville, FL

Property of:

A.T. Kearney, Inc.

325 Bennekers La.

Alexandria, VA 22314

703) 548-4760

Site Visit Conducted by David Kasser
Paebe David
Dary Swanson

The paper in this book is made of 50% high grade rag stock with a WATER RESISTING surface sizing.

2/2

E: DB no longer was anything to do w/ facility

N: leased out since 3/1/92

E: Fla Steel paying for cleanup

- Wayne told Huck had received confirm from Fla Steel re: cleanup
- have had reps onsite

9:14

E: (hands out information needs

consent sheets)

- make of it they have come

from Oltus permit

(handc-out maps)

9:16 (Jim Oliver's arrives)

E: all underground tanks removed in 1989

O: all tanks removed DEB has authority

2/3

- no report @ time to sample

- high ~~water~~ ^{level} from nearby boatyard all fac.

O: may have been former vice Paddies

E: plan from '55 showing Ft Stead

- also have deed showing Pushover

- at one time was artesian well

- used for irrigation of olive orch

N: was with in middle of bog where big cement slugs u

O: never used by DB

- until N. Co has fire maps

9:21 Puerto Azules Q's

2/4

E:

Office refuse to PSI

- 107. Waste to Chem. Co.

N:

recycled, ^{some} solvents - had brown
messes

- distilled it

N: would accu. spent solvent

- reusable

- used for thinner

- could consolidate many

- recycled what could

E: 3 drums a month

- depends on job's curing time

- bought reclaimer

- used cleaning waste as
thinner

- when waste was paint they
had settled to bottom

- some sandblast used as
backfill in marshy area

- watered for to ground - during rain

2/5

- there was graded

N: never blasted already painted
steel

- finally used lead primer paint

E: wetted grit + shot used to clean
steel - recycled + sold

N:

Sold to Ass'd Lion + treated
(became chromium)

E: Primers never been required

- 1st recent accident photo - '88

C: Backfill + not sure what it makes

N: Buff. Tank - ^{offsets} tanks -> by
thinks from

- found it

- sometimes paint inside

- could find the outside sometimes

(SITIPIS)

- radioactive protection

2/10

E: Shrage areas have been removed by Tralf. Beatty

- concrete pad paved in western part of facility

D: KPH - soil borings have, OVA work

E: high OVA rdfs. found in

Paint less OXc. used

- unlabeled, unknown thurs

D: Fr Steel recognized as red lead primer that had used for DOT work

E: apparently next to old paint shed of Fr stls

- area prone to washout

- area (was found = washout area

- could see in some intervals
old railroad ties

3/11

- perhaps used as bucket area for present easy washouts

- no apparent slicking or oil

D: Soil around if contaminated w/ UOls

- took immediate samples of soil
- soil saturated, surrounding was

E: also took sample of liquid that was result of rain runoff

- turned 3 1/2 - 4 gal. of mostly product w/ some water

- contained used motor oil & used solvents also

- next morning during leaky
lines were contaminated

- 5 gal. jars

7/8

- Limestone sand covered w/
vis clean

E (shows permits)
7/16/91

10:02 Pave Pellabum works
- break to get ready for fair

10:15 Begin fair. Fair

Warehouse (NE corner) - unload
steel - diff operation

- north driveway if had to be
painted only

- cutting/welding through south
- bring it towards north

2/9

- main warehouse

- underpinned inside

- steel brought in from north side

F - concrete ramp, back of refueling
underneath (curse ~~at~~ it)
(photo E in state inspection)

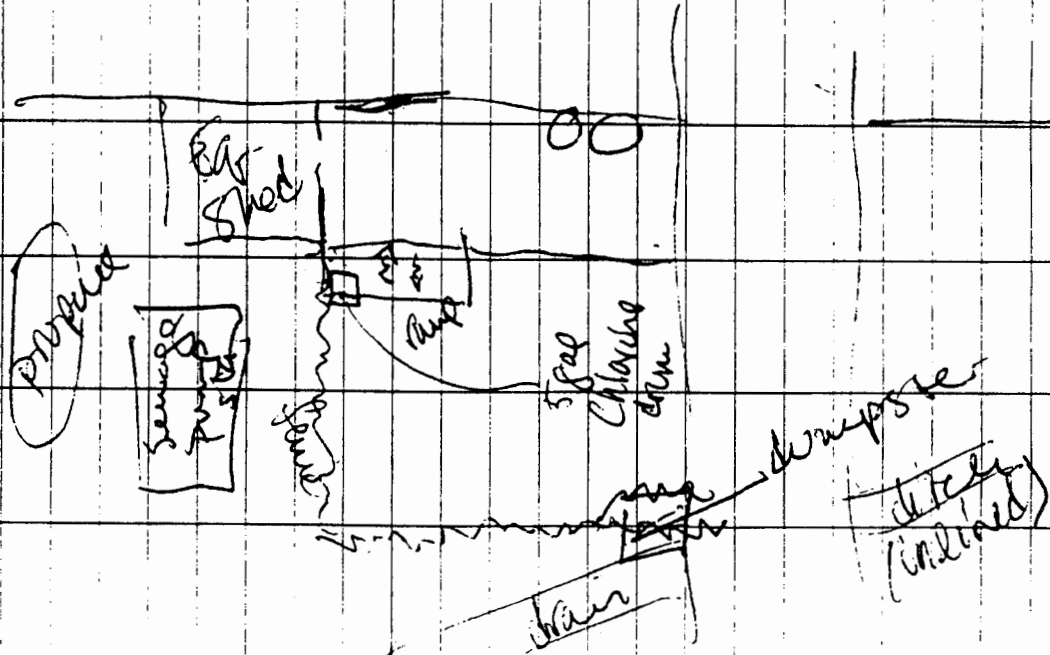
- equipment shed adjacent to east
side of main bldg. South of
north driveway

- waste oil (1) + kerosene drum (1)
- 55 gal. stored in cement area
- fuel (10' x 30')
- automotive batteries (4th) (5)
- scrap metal pieces (machinery parts)

- runoff to drainage ditch

- propane gas tank South of shed.

2/10



2/11

drain ditch (1-1 1/2' deep)

N. had injection well by vent on city system

ditch piping put in very recently

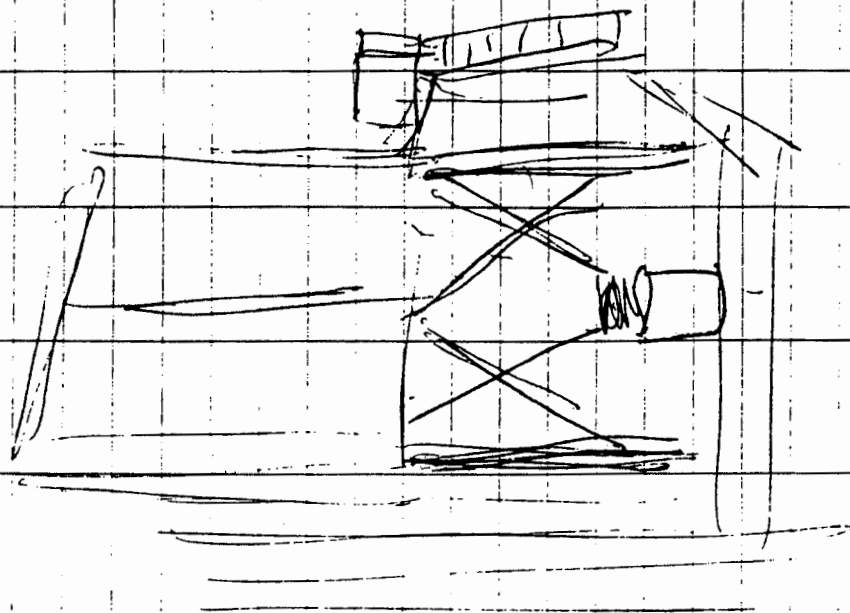
East side of main bldg. North of W. Drivethrough

Visible wheelapointer dust on surface all along ground

22 drums (CS gas) of "short" blast residue - 1 in (access) of bens ~~to~~ high house - 25' high

- all drums sealed w/ plastic sheeting + tape

2/12



Dust Collector

2/13

- drainage ditch gradually tapers to level ground
- blackish clay dust all around drum + cement pad under dust collector
- shot blast in drums sold for recycling
- dust collected in galvanized steel storage area north of main bldg
- one battery + some scrap in back

2/14

- former diesel fuel tank
(white)

- dark stains on ground
some dead plants on
west side of it

- temp. waste storage area
on cement pads

- paints/sludge - paint waste
- some epoxy - some oil-based

N. drums filled up w/ sludge
shipped off via heavy. Co.

- used xylene abt. '88

- notified '88 of HAZ waste
- declared F003 (xylene)

- sometimes had old paint that
wasn't inventory → disposed

2/15

- stored between 2 to 20 drums
- 1 drum / no generated

- pad now stores 2 vehicles

- another pad near abutment corner

- pads bordered by soil - mixed w/
dust (black) - pads lined w/ steel

- misrepresentation on map of temp
HAZ waste stor area - dis. to
to denver

- Photo 1 - abutment S. of
N. Pier through - drums stored
on ledge

- no determination of HAZ waste
before drums brought over to
this area

2/10

Shum #2 - near SW well #17

N: would cut tops off drums when empty

F: had drums of MEX

area in photo to new trap pile

→ in area marked "Cement"

4 m/w Star Area

~~pic 10~~ p 40

15

accum. area on S. side of Star Area

- paint sledge

- cement pads spined in this area

2/17

- distiller could distill 5-6 gal/hr. in this area

- N. area could store solvent produced -

Trucks would unload at dbl door

- no hiking, retaining lips

- some gaps between sheeting at walls + cement pad

- very oily soil on ledge + below - darkly stained

where drums had been stacked in photo D (of 10/40 inspection)

Very dark oily soil around perimeter of 4 m/w Star Area

- standing water

- storm drain BOP S + W of 4 m/w Star Area

2/18

- drums along west side
- rusty

SUMMU # 1

- cement slab w/ iron shed
- now contains gas tanks
- compressed $O_2 + CO_2$
- where washed off equip.
- areas w/o vegetation

= GW monitor well # 6

- inside main bldg - north of SUMMU 1

GW mon well # 5

- inside main bldg south of SUMMU 1

= traces of reddish paint where equip. + guns sprayed off

- walls painted or pulled back where paint sprayed through

2/19

- blue shed now gone - photo F
- other shed - photo G
- removed March 6, 1992

- used to be an old corrugated shed when DB first got there near the fence line

- dark brownish red dirt road along western fence line

- construction debris in pile along fence

W. road been like this since DB's been there

= Paint an excavation area on S side of Pac.

- adjacent to S. Drain. ditch

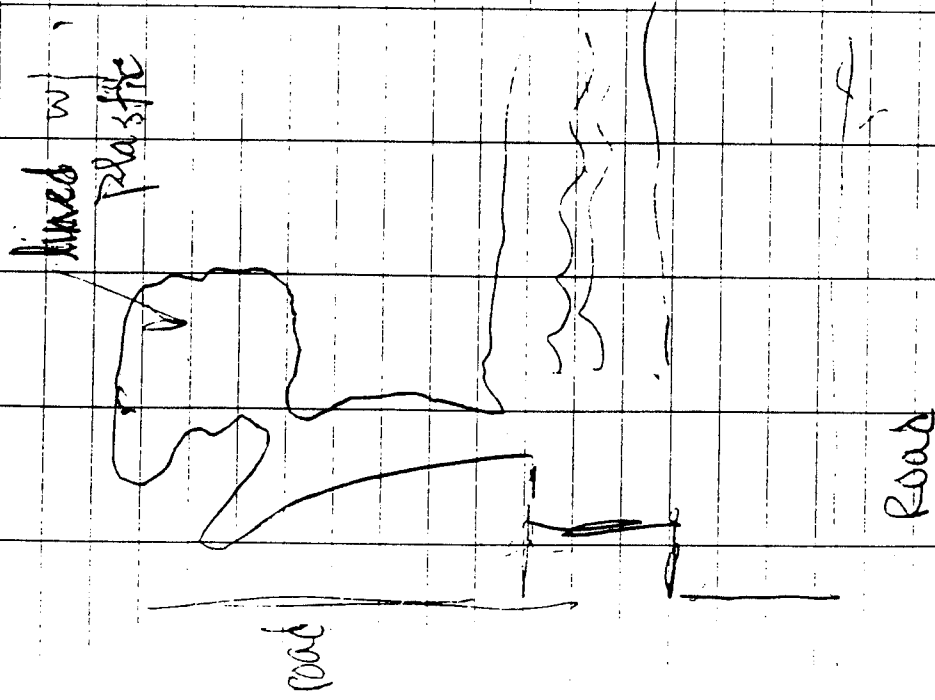
- ditch about 15' deep

- very shallow water - fairly c

ok

2/20

-excavation pit



2/21

- about 10' deep
- preliminary segregation in far SW corner - on plastic liner
- high OVA soil under plastic in SW corner, closer to gate double viscous liner ethyl benz. Xyl., butanol, spirits
- Very sig. hot dirt mixed in w/ tiles
- Missions performed SD40s + RCAF tests on material
- 540,000 PPM lead
- ~~Plastic~~
 → clean dirt in pile in far corner bottom OVA Nbs + visible not lined
- 15-20' in diameter 9' high

2/22

- double lined underneath pile +
top liner

30' x 30" - 9' high

- pile of constructed debris

20' diam 9' high
- from general area
near gate

2/23

- compressor area

- in inspection PE had
noticed leak of oil running
NE-SW, oil-dry on ledge
south

- drain ditch South of compressors.
area very thick

- deep brown w/ patches of
brownish brown

- N: never used either of 2 builds
in SE corner of facility

- one in farthest SE corner
- used to house FL Steel's
erection equip.

- east of main bldg. - former
above end. stor. tank

- storm drain (crossed) adjacent
to east of it

- drain ditch just to the west

2/21

- South DriveThrough flow blocked off by chain-link fence
- highly turbid brown water in drain ditch
- very shallow
- very little noticeable flow
- ditch between office + South drive through - not as well defined as in points north
- former waste oil tank was located in between 2 bldgs in SE corner
- closer to westernmost of the 2 bldgs
- now a scrap tire pile w/ some scrap fencing

12:20

2/25

- open lot located directly across Ellis Rd. from South drive through + lot entrance
- two new drainways from South into the fac.
- double outfall into drainage ditch along highway drive
- a few rocks have reddish tint near water level
- reddish hue under water on rocks -> red dirt
- old culvert base near ^{eastern} Southern driveway

2/26

- general debris pile North of SW corner contains some drum scraps & crushed drums
- Scrap 5' tank used oil
- W/N did not know origin or owner
- outside sand blaster
 - west of main bldg by abt 100ft
- material used is fill in area immediately surrounding blaster and area near hog house, east of building
- 27 barrels labeled "Shot Dust" north of artex blaster
- north west of that, 20' long 10' high pile of greyish residue - sandblast (outside residue)

2/27

- 3 of the drums (gray ones) labeled w/ "Shot dust" 6/24/92
- 1 barrel labeled "Paint waste" N, - might contain hardened paint
- storm drain grate W of main bldg is very recent
- some crushed barrels in waste (5 gal)
- Piles - small piles - along western fence
- MW-1 near north side just south of railroad abutment
- White fuel oil tank near tank / fuel storage area installed in 1991

2/28

Main Bldg.

Mentel's brought in
through North Side

- finished, cut

→ in Wheelabrator

- coating/painting

- exit pipe to city sewer from
Wheelabrator, raise
20' north of North Drive in area

Paint residue in concrete pads
at painting/coating area

old barrel w/ label indicating

D9001

F4005

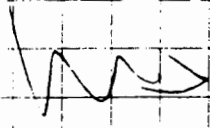
D435

UN1263

2/29

1140 P.M. 13-10

lunch, Parents



3:00 1500

Other info needs meeting
Waste Mgt Practices
Sanitary: City Sewer

General Facility Refuse

Paper - dumpster
B&I →

Used/Unused Paint:

Chem. Con.

Instruction in Dubois

- have that someone recycling

tried to have

come out - never showed up

- some of setup sent to

Chasman

2/20

- Swap → Swap bin → taken to Chatham

Used Oil - never used VST

- stored in drums → picked up by Holloway - received Oil Company of TX

Used tires

- trucking co. - Great American Western left them behind.
- accumulating since DB operated

Frequency of Paint Gun Cleaning

- if sprayed using paint throat only WET will clean art → daily

E: - after use - use paint/solvent mixture again to ~~clean~~ in as a paint additive

Two areas used for fill from

Outside sand blast area →

2/31

- 1) along east side of main building near wheelabrator bayhouse
- 2) around outside blast area
- graded as it accumulated

W.N. DB doesn't blast off old

coatings

Neither does BB

Balton Battery - not doing any coating
- constructing painting facility

2/32

Example process:

By rail: field by tracks
start south → north
by truck
normal flow:

Start south → north

finished after wheelabrators -
coating
- burning tables were in south end

North to south - in

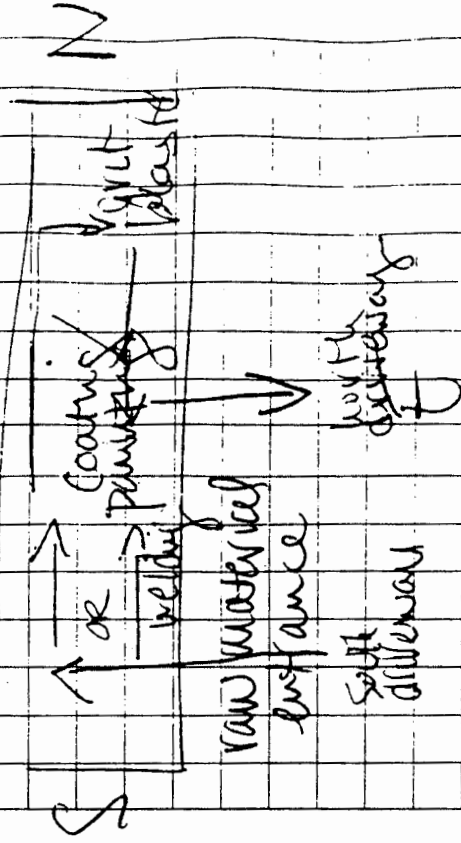
2/33

- fabrication of smaller angles
along w. wall

- ripping of flanges
splicing

welding along e. wall

MAIN BRIDGE DIAGRAM



- If could be by rail & just
needed finishing → end of
N → S & just get blast the
the at end

2/24

- could also move materials via overhead cranes N → S off of vault

- 20' x 10' grid around point in excavation area

- @ 3' 6" x 9'

2 Accessible well - located in ctr. of main bldg.

2 There were 3 above, 3 below ground tanks + the 1 white tank

4:48 1649

2/55

Used to be an old street (Cynthia St) where western side boundary in

- evidence of an outfall discharge equal to midway point of main bldg.
- discharges onto Chatham Steel Property

2 previously unnoticed SS steel drums

- badly distorted

- blue one reads "Ditty Thinner" in purple w/ 2 5 gal. cans.

- 20' from construction debris pile

- adjacent to black SS gal. drums

2/26

between segregated dirt pile
 & construction debris pile in
 SW corner

Storm sewer drain

- man washed out soil
 around it

- evidence of surface water
 runoff from vicinity of

" dirt pile

Excavated Cans

- cooped up liquid from water
~~excavation~~ excavation hole

- recontaminated leaking cans

4/8 Discovery

4/9 Contaminated leaking cans

Soil piles + drums created + filled
 about 6/11

2/27

TASK Environmental
 Tampa, FL

- conducting paint can removal

~~FLSECUIT~~ WTC 1/30

Now is

ETED

~~Don't~~ on

Simmons

David

Kussel

VST Complexes 1840

David Kussel, Simmons same dinner. Ditch
 in Highway Avenue for Storm water
 gutter

Janice Fullin 1900

APPENDIX B

PHOTOGRAPHIC LOG

The roll number and photograph number of each photograph are provided at the end of each legend to cross-reference the Photographic Log to the VSI Log Book in which the sequence of photographs was recorded (i.e., 1-2 refers to Roll Number 1, Photograph Number 2).



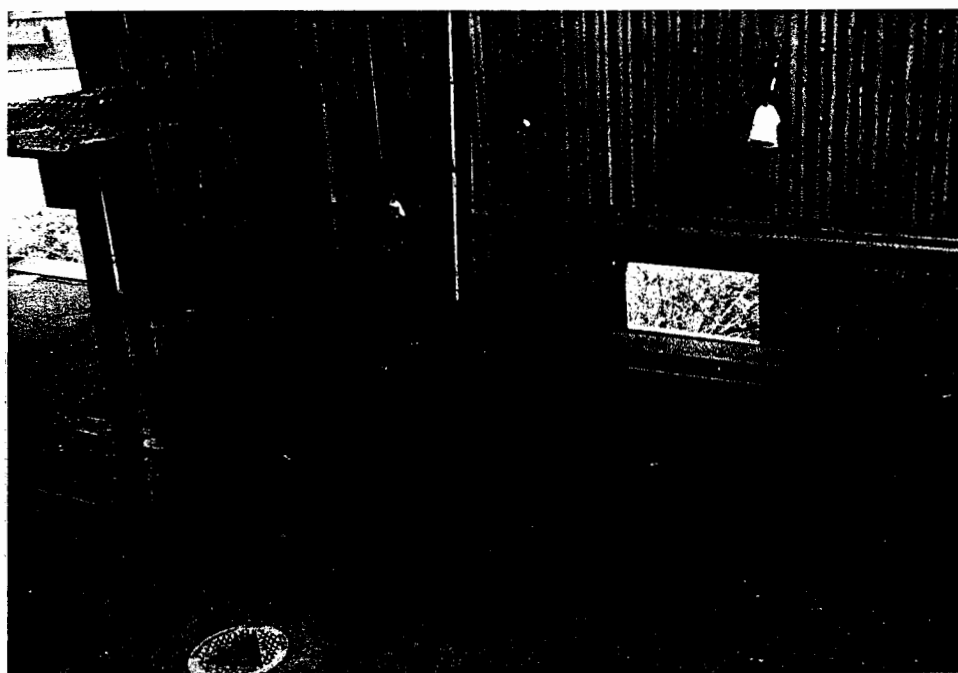
1.1 Location of the Area Adjacent to West Side of Main Facility Building (SWMU 1), facing south. The unit is located where the vegetation is growing. (1-20)



1.2 Close-up view of the Area Adjacent to West Side of Main Facility Building (SWMU 1), facing south. Note the area is grown over with weeds. The door leads into the main facility building. Reportedly, the paint guns were directed out of this door for cleaning. (1-21)



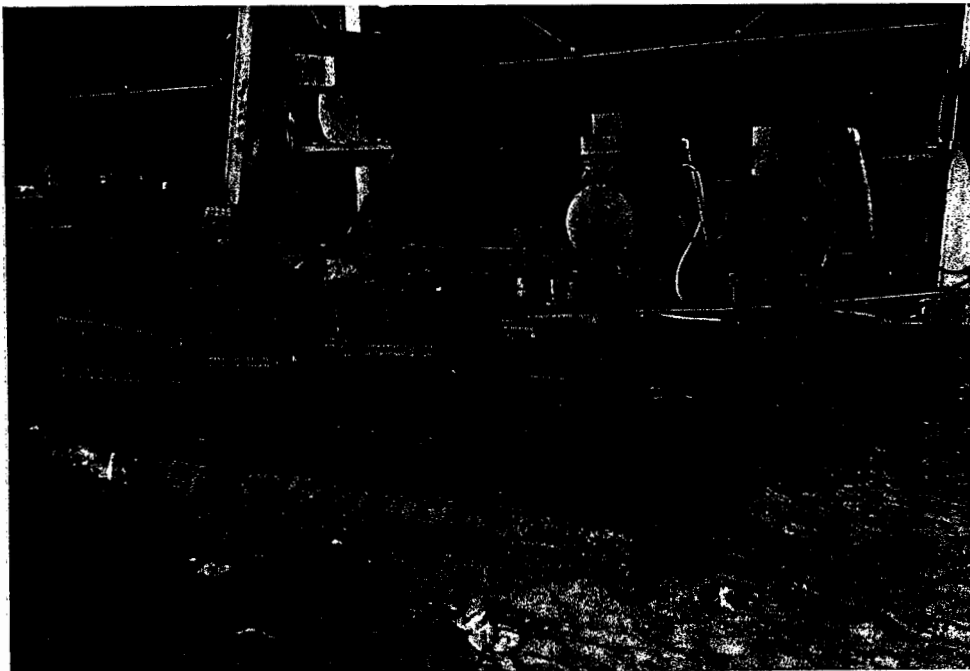
- 1.3 Close-up view of the Area Adjacent to West Side of Main Facility Building (SWMU 1), facing south. Note there is no evidence of paint residue since the area has been cleaned up. (1-23)



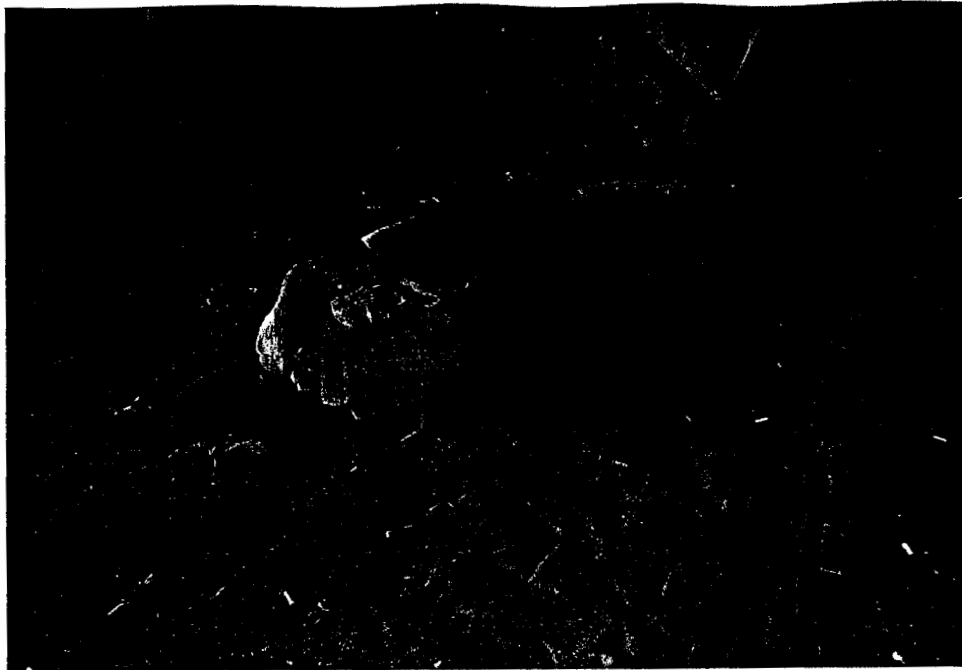
- 1.4 View from inside the main building at the location where employees allegedly cleaned out their paint guns and directed the waste out the vent hole to the Area Adjacent to West Side of Main Facility Building (SWMU 1). The photograph is taken facing west. (1-24)



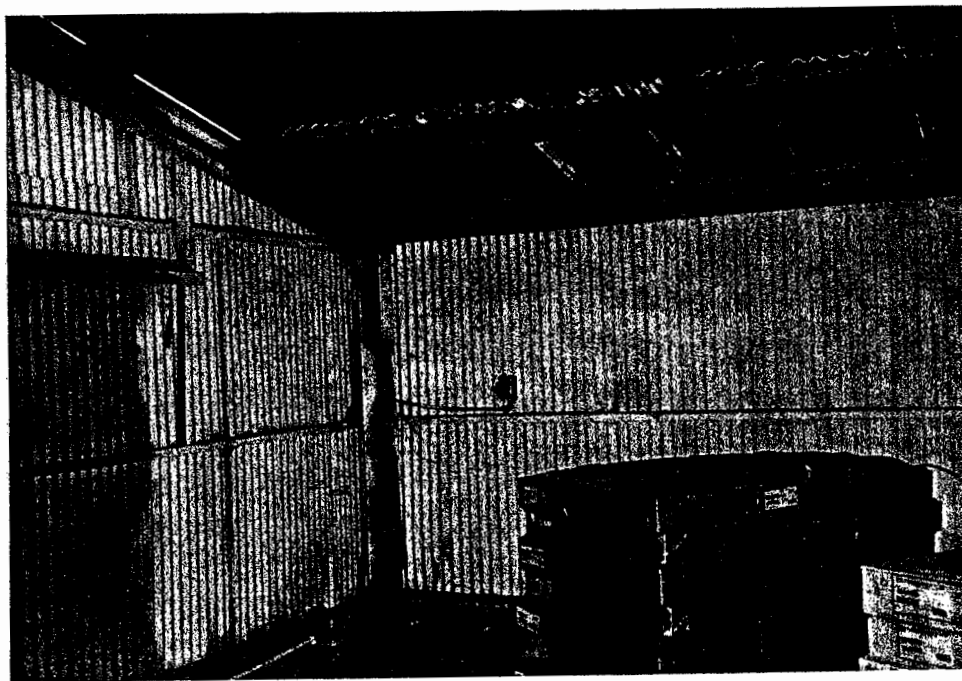
2.1 Facing north at the Area Immediately Adjacent to Dumpster (SWMU 2). Note monitoring well No. 7 is located in the foreground. The brown box in the background is the Dumpster (SWMU 22). (1-13)



3.1 View of the Temporary Waste Storage Area (SWMU 3), facing east. Note the concrete slab is not curbed and soil abuts the slab. (1-10)



- 3.2 Close-up view of broken bags of Black Beauty™, located on the north side of the Temporary Waste Storage Area (SWMU 3), facing north. The bags are positioned on dirt covered concrete. (1-11)

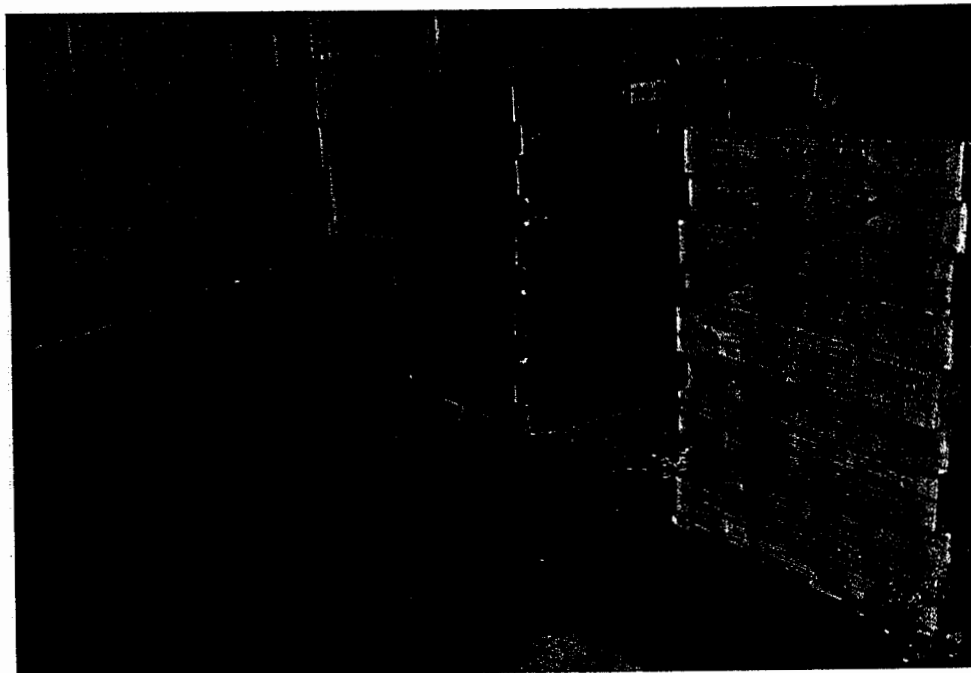


- 4.1 Hazardous Material/Waste Storage Area (SWMU 4), facing west. A solvent recovery unit was formerly located in the corner. Note that the pad is not curbed or diked. (1-16)



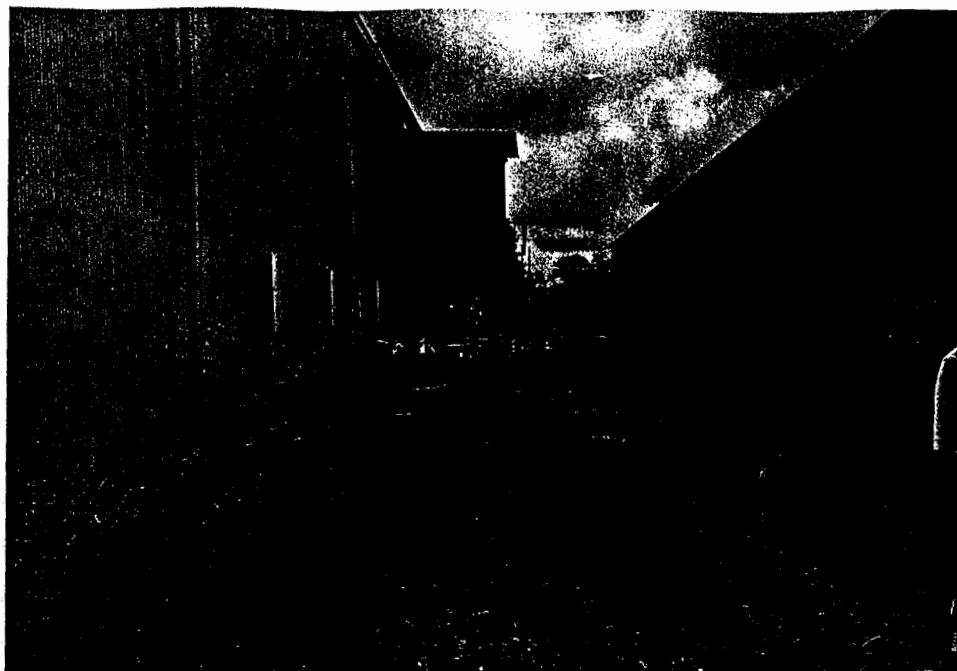
4.2

Facing northwest at the Hazardous Material/Waste Storage Area (SWMU 4). Note welding rods are now stored in the area. (1-17)



4.3

Close-up of dark stained concrete floor at the Hazardous Material/Waste Storage Area (SWMU 4), facing southwest. (1-18)



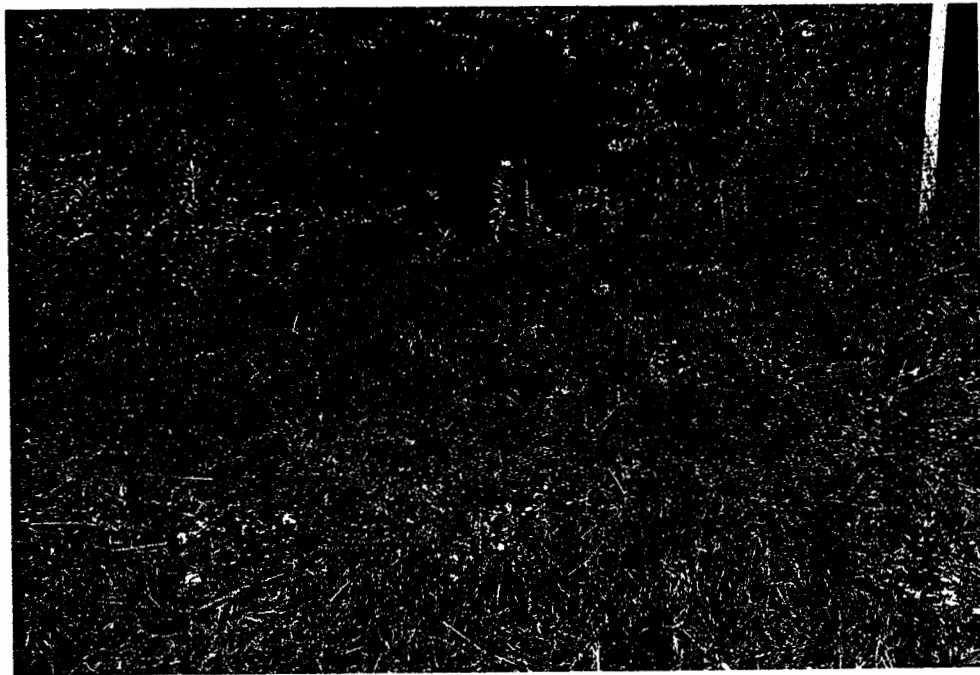
5.1 Facing north towards the Wheelabrator Dust Collector (SWMU 5). Note that the drums contain shot blast dust collected from the collector spout. (1-5)



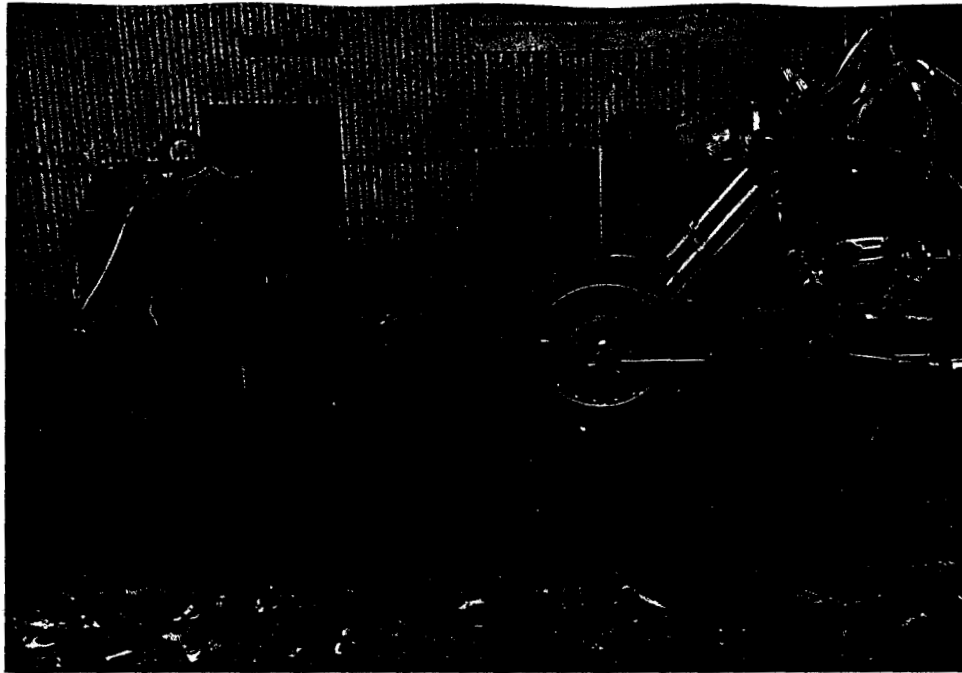
5.2 Closeup view of the Wheelabrator Dust Collector (SWMU 5) downspout, facing north. The drums contain shot blast dust. Note the soil surrounding the downspout is covered with shot blast dust. (1-6)



5.3 View of the drums containing shot blast dust from the Wheelabrator Dust Collector (SWMU 5), facing south. Note that the shot blast dust is on the soil surrounding the drums. (1-7)

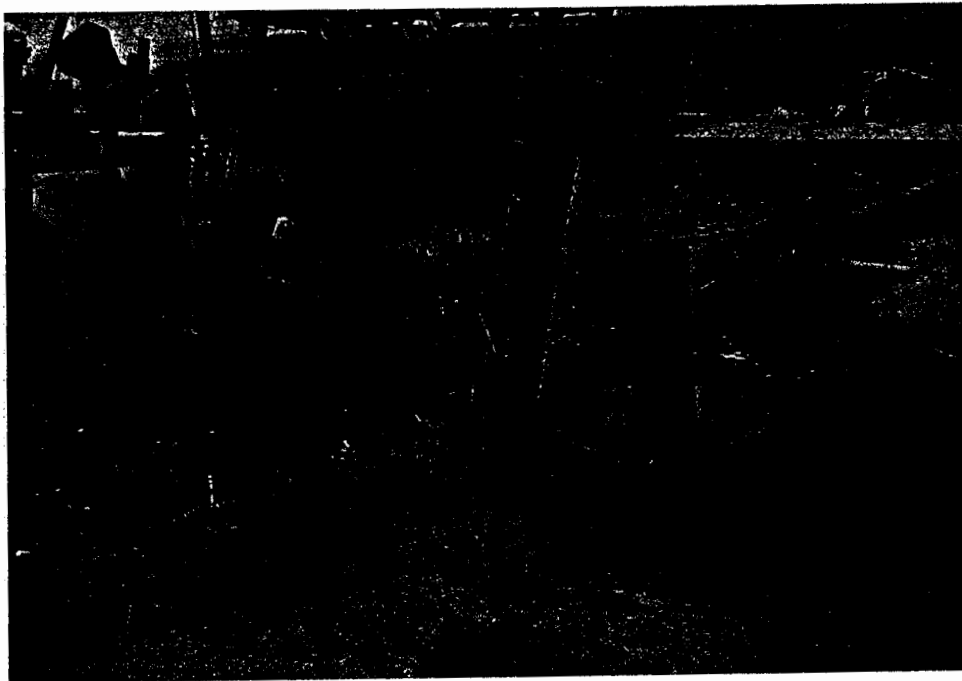


6.1 Location of the former Waste Oil Tank (SWMU 6), facing south. Note that there are no remaining fill or vent pipes. (2-17)



7.1

View of the Ramp Area (SWMU 7), facing west. The drums in the background are labeled waste oil and kerosene.
(1-1)



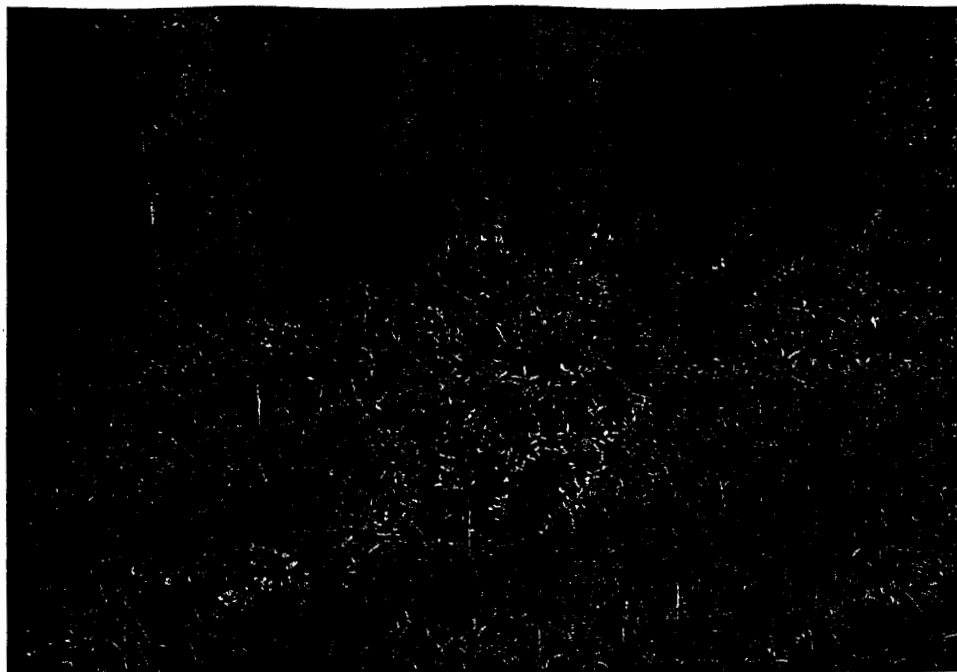
7.2

Facing southeast towards the Drainage Ditch (SWMU 19) from the Ramp Area (SWMU 7). Note that the drainage from the maintenance shop and Ramp Area flows towards the Drainage Ditch (SWMU 19). In addition, this is the location of one of the Underground Storage Tanks (AOC B).
(1-2)



7.3

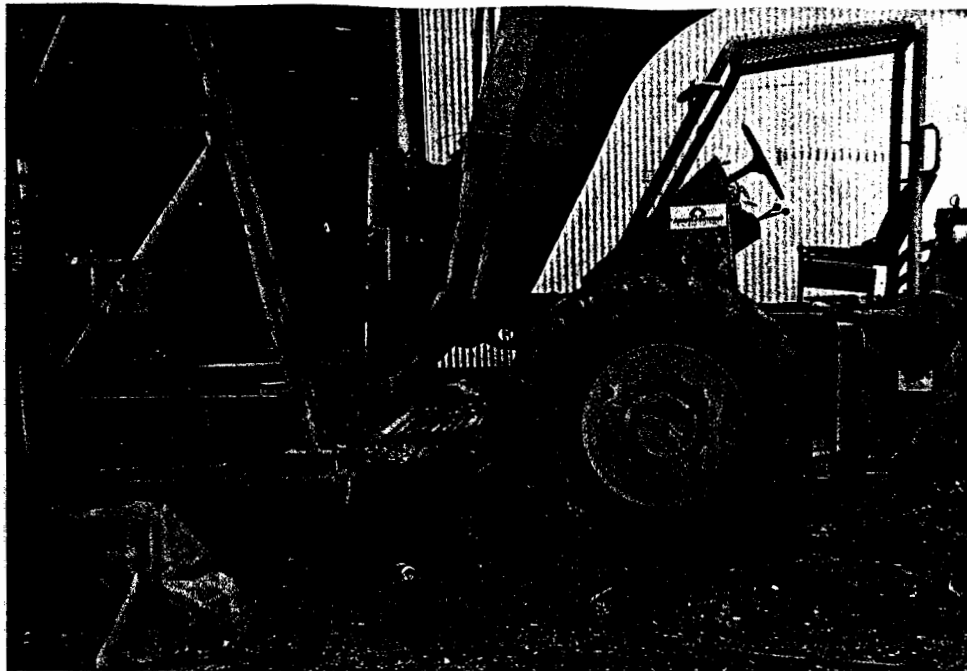
Panoramic view of the Ramp Area (SWMU 7) and Drainage Ditch (SWMU 19), facing south from the maintenance shop area. (1-3, 1-4)



8.1 Close-up of the Sandblast Residue Fill Area (SWMU 8), facing east. Note the dark material within the grassy area is the sandblast residue. (1-8)



8.2 View of the Sandblast Residue Fill Area (SWMU 8), facing east. Note the dark material in the center of the photograph is the sandblast residue. The Drainage Ditch (SWMU 19) is in the foreground to the left. (1-9)



9.1 Facing south towards the Historical Outside Storage Area (SWMU 9). In the past, drums were located where the fork lift is parked. (1-12)

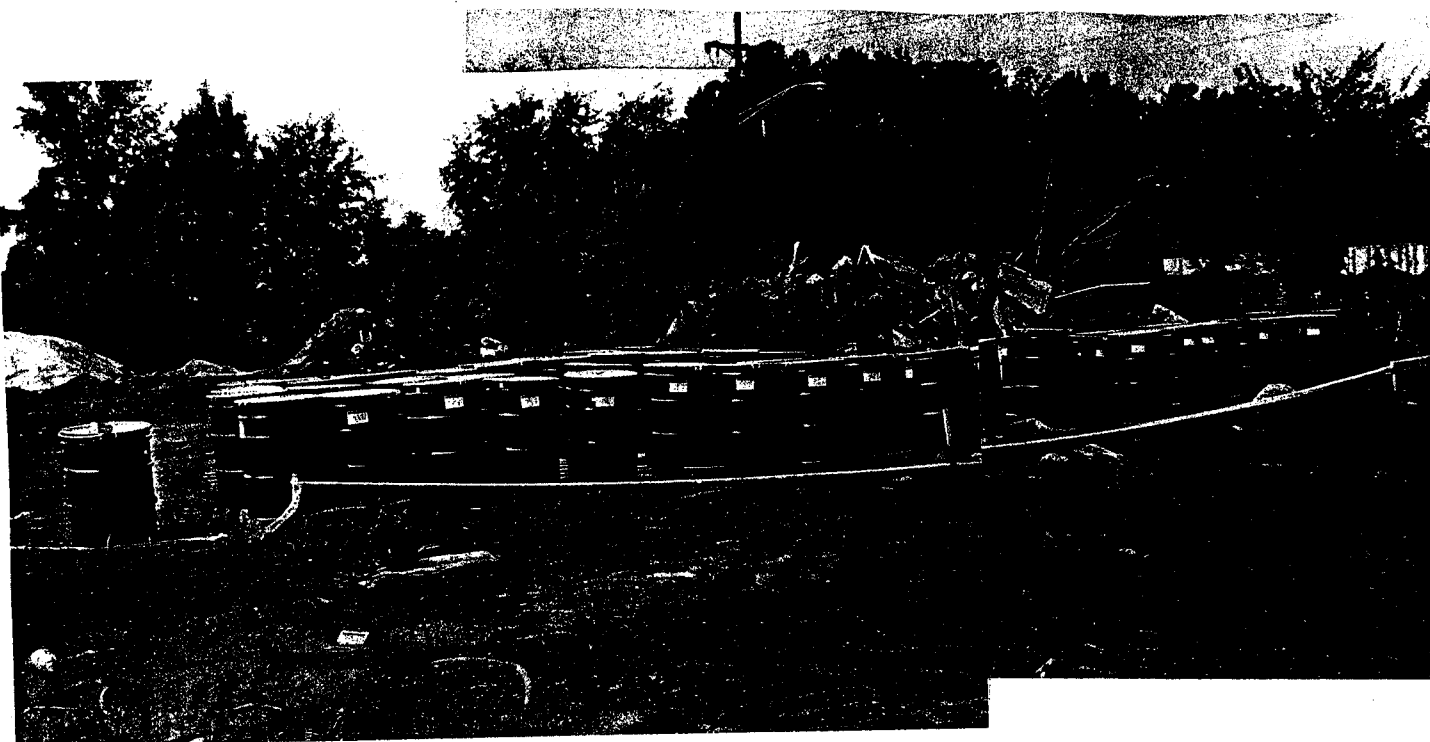


9.2 Photograph showing the former condition of the Historical Outside Storage Area (SWMU 9) as well as the current condition of the area (in the background where the forklift is located), facing south. (1-14)

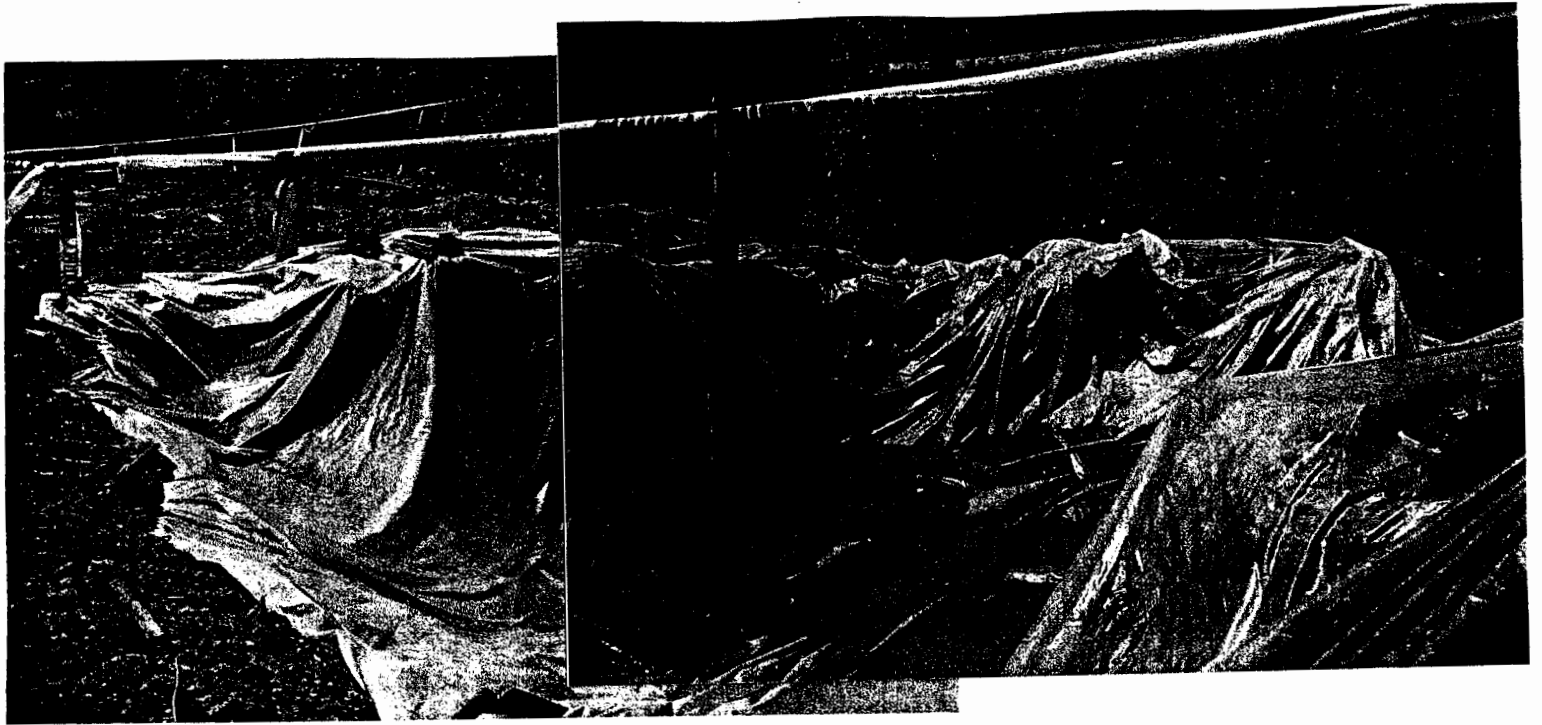


10.1 Location of the former Blue Shed (SWMU 10) and Sheet Metal Building (SWMU 11) where waste paint cans were historically stored, facing east. Note the area is now covered with a concrete slab for the new painting building. (1-27)

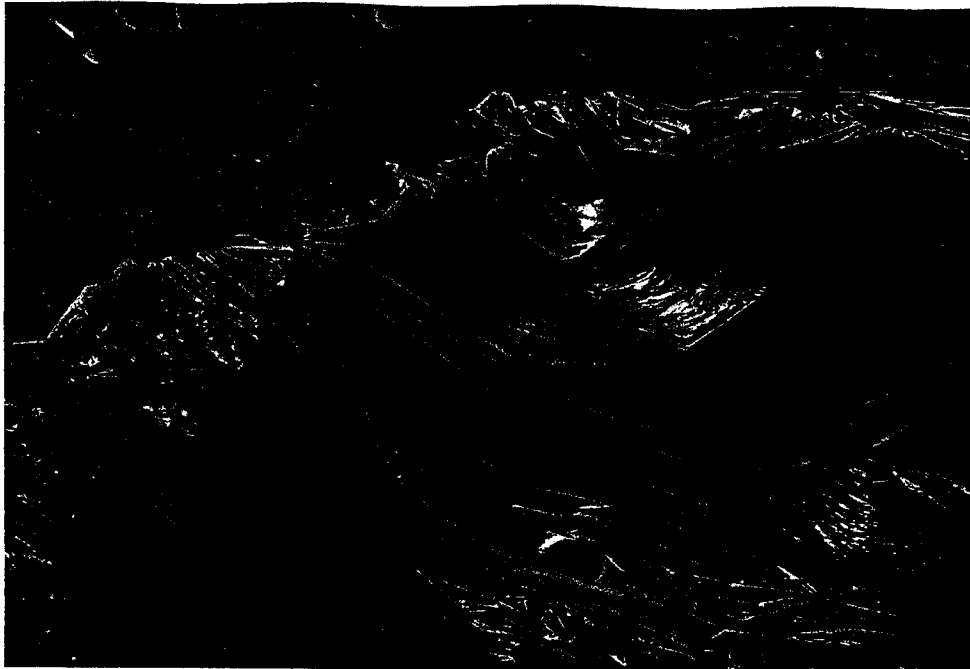
11.1 See 10.1



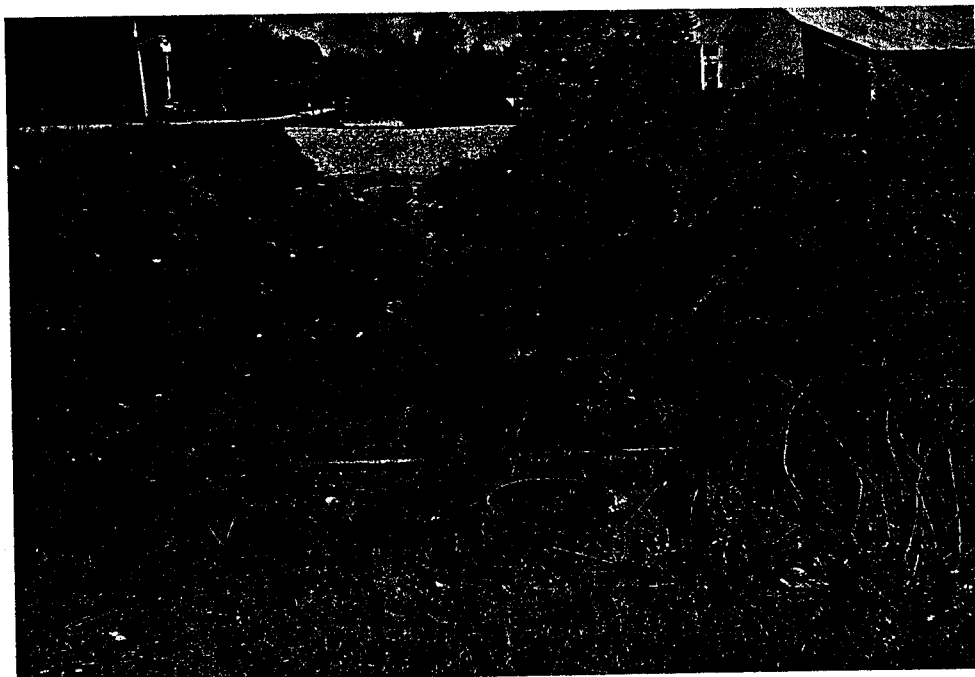
- 12.1 Overview of the Paint Can Excavation Drum Storage Area (SWMU 20), facing southwest. Note that most of the drums are positioned on wooden pallets. The drums contain visibly contaminated soil from the Paint Cans Excavation Area (SWMU 12). The Construction Debris/Soil Pile (SWMU 21) in the immediate background was created during construction activities for the new painting building. (1-33, 1-34)



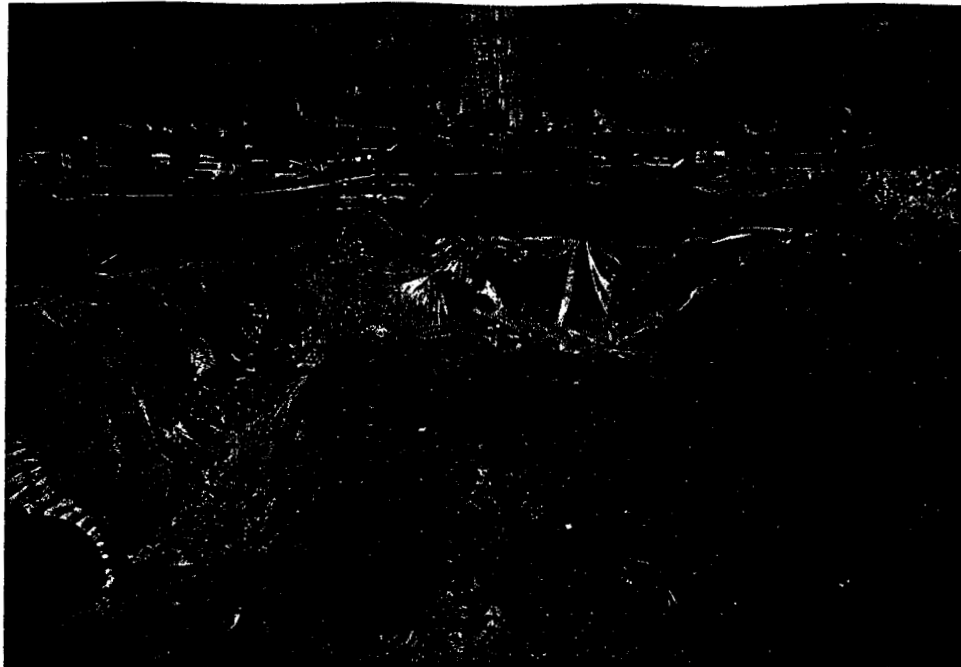
12.2 Close-up view of the Paint Cans Excavation Area (SWMU 12), facing southeast. Note the ponded water is from recent rainfall. (1-35, 1-36)



12.3 Facing northeast at the Paint Cans Excavation Area (SWMU 12). Note the area is covered with sheet plastic to prevent rainwater from entering the excavation. (1-37)



12.4 View of the Highway Avenue drainage ditch located on the south side of the facility, facing west. This ditch receives runoff from the Drainage Ditch (SWMU 19) and the Storm Water System (SWMU 18), as well as runoff from the Paint Cans Excavation Area (SWMU 12). (2-18)



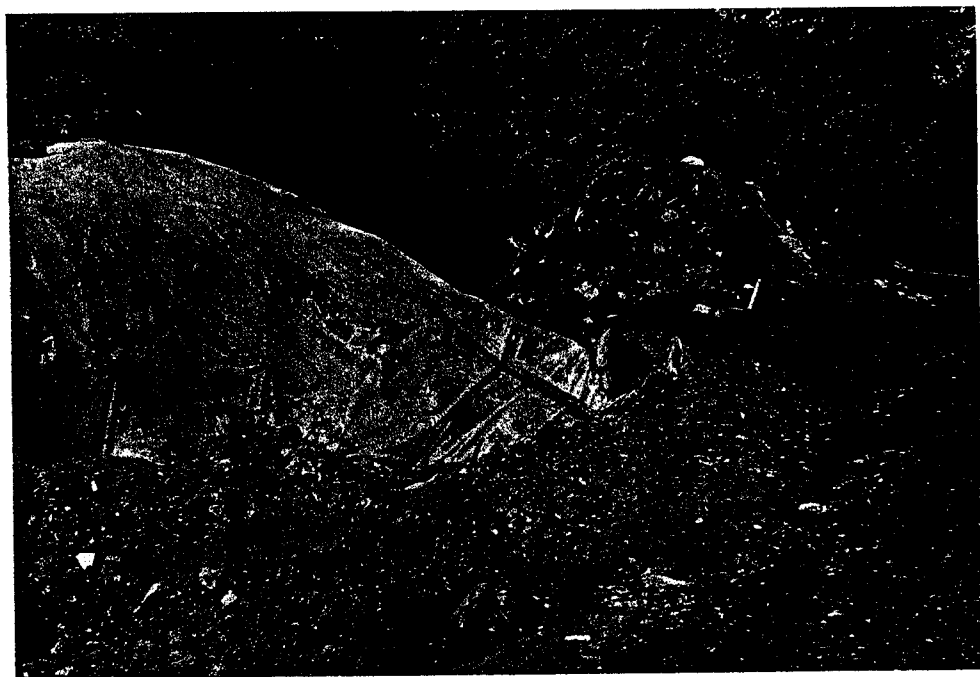
12.5 Overview of the Paint Cans Excavation Area (SWMU 12), facing northwest. Note the Highway Avenue drainage ditch is in the foreground. (2-22)



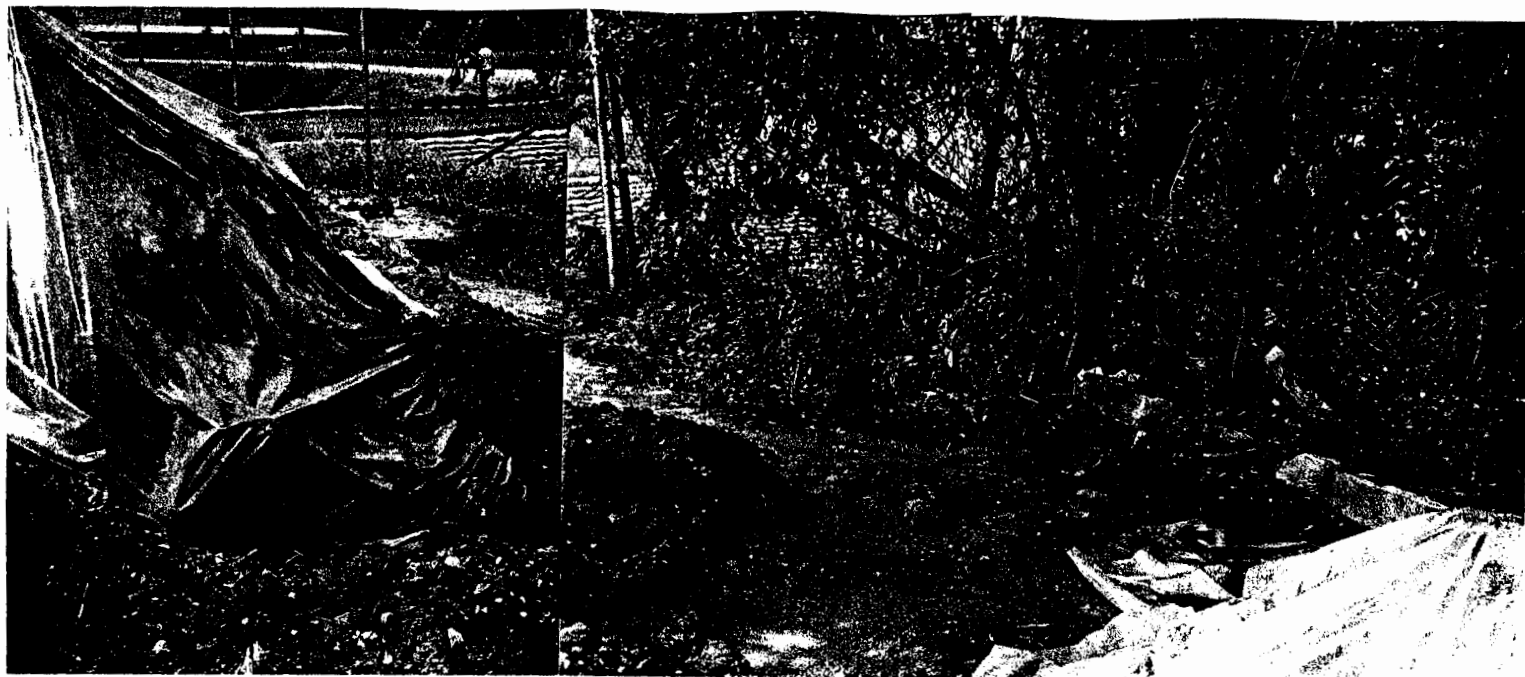
13.1 Facing south adjacent to the Covered Soil Pile (SWMU 13). Note the drainage ditch along Highway Avenue is in the background. Runoff collects in the bermed area and flows to the Highway Avenue drainage ditch. (2-1)



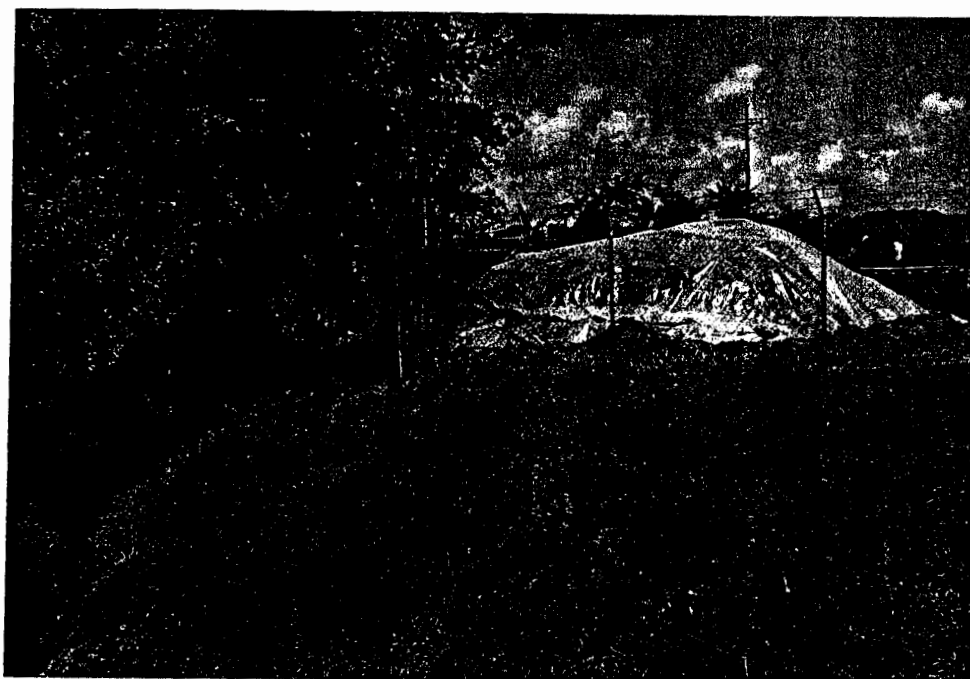
13.2 Facing southwest at the Covered Soil Pile (SWMU 13).
(2-2)



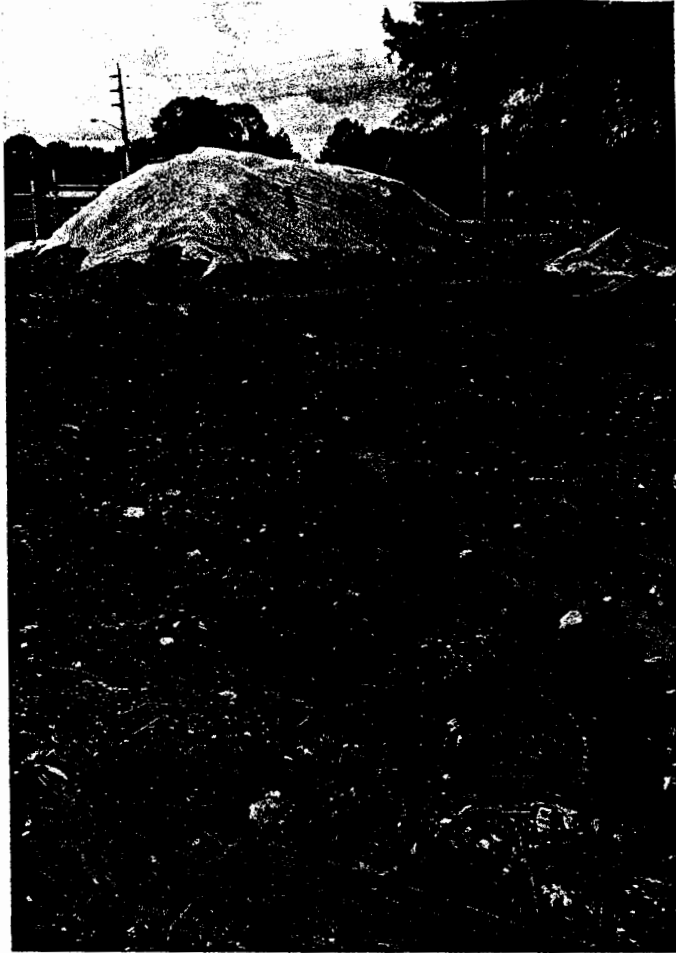
13.3 View of the Covered Soil Pile (SWMU 13) in the foreground
and the Uncovered Soil Pile (SWMU 14) in the background,
facing southwest. (2-3)



13.4 Panoramic view of the drainage route for the area along the western edge of the Covered Soil Pile (SWMU 13). Note the drainage ditch along Highway Avenue is in the background. (2-5,2-6)



13.5 View of the Covered Soil Pile (SWMU 13), facing northwest from outside of the facility. Note the Highway Avenue drainage ditch is in the left foreground. (2-23)



13.6

Overview of the Covered Soil Pile (SWMU 13) in the background, and the Storm Water System (SWMU 18) drain in the foreground, facing southeast. (3-12)



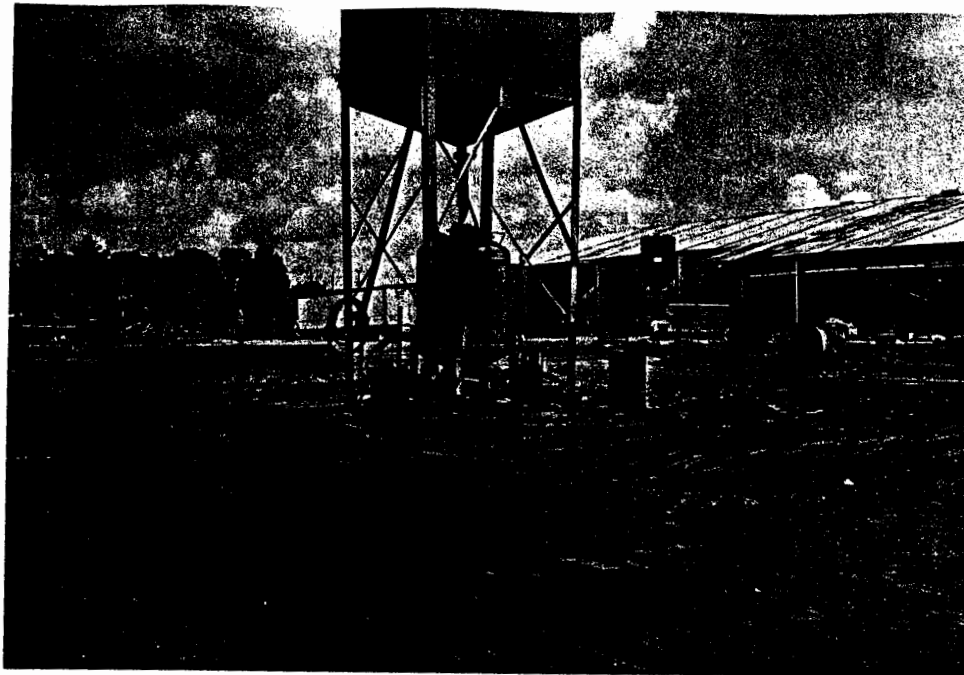
14.1 Overview of the Uncovered Soil Pile (SWMU 14). Note the drainage ditch along Highway Avenue is in the left background. (2-4)



15.1 Shot Blast Dust Drum Storage Area (SWMU 15) surrounding the Sandblast Area (SWMU 16), facing west. Note the drums contain shot blast dust and one drum, labeled paint waste, actually was storing construction rubble. (2-29)



16.1 Overview of the Sandblast Area (SWMU 16), facing northwest, with the drums of shot blast dust in the foreground. (2-30)



16.2 Overview of the Sandblast Area (SWMU 16) area, facing northeast. The main facility building is to the right in the background. The sandblaster is in the center. (2-26)



16.3 Area to the east of the Sandblast Area (SWMU 16), where sandblast residue was used to fill in the area facing north. The Sandblast Area (SWMU 16) is in the background. (2-27)



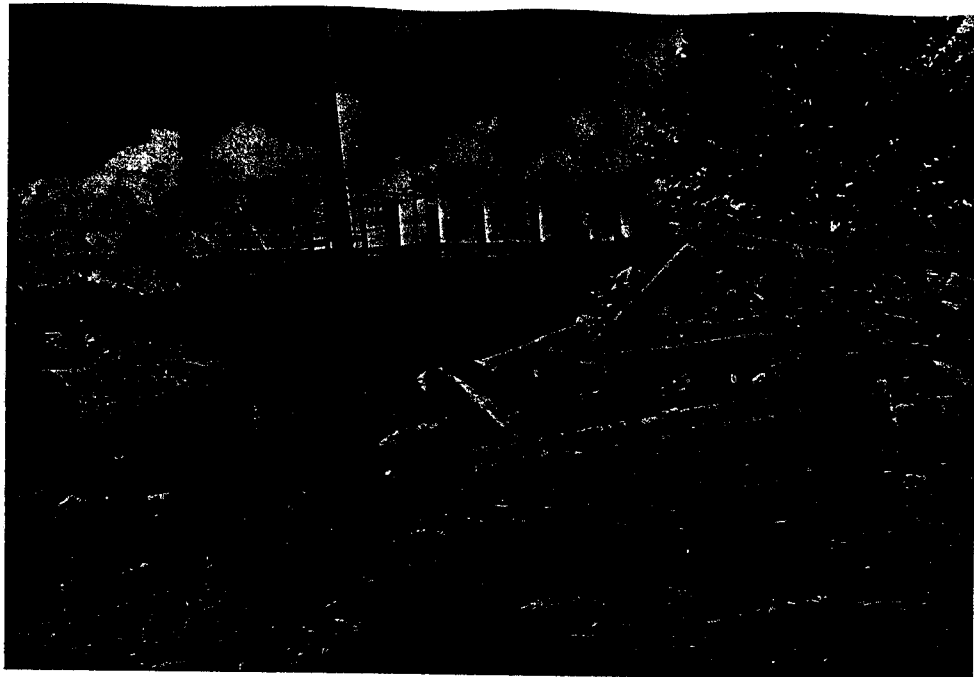
16.4 Area beneath the sandblaster at the Sandblast Area (SWMU 16), facing northeast. Note there appears to be Black Beauty™ residue on the ground. (2-28)



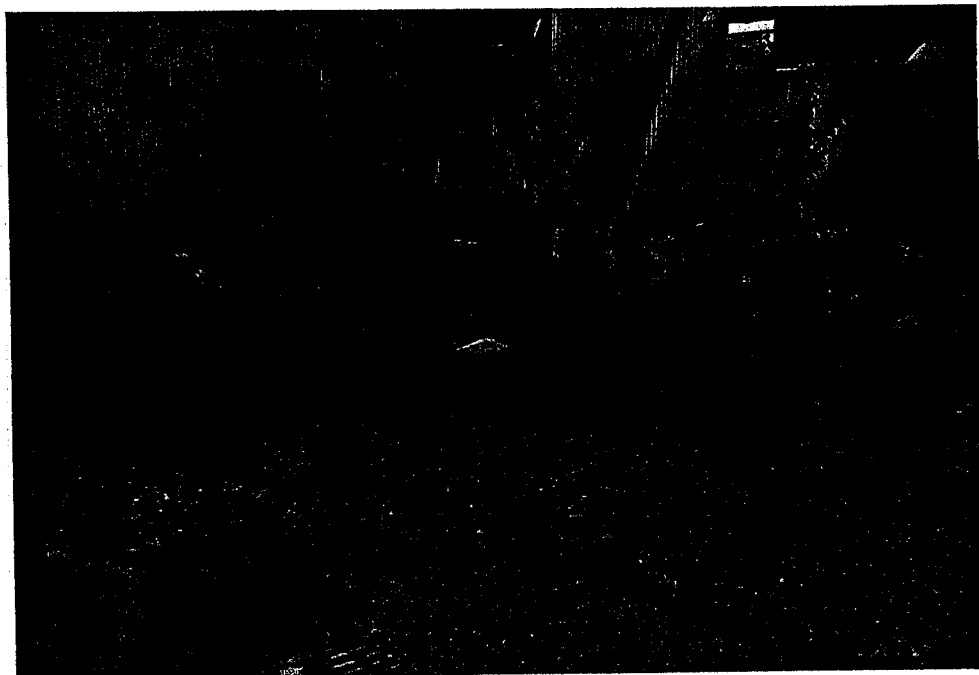
17.1 Facing west towards Chatham Scrap Metal. To the left foreground is the Construction Debris Pile (SWMU 17). Note there appears to be an old 55-gallon drum beneath the piece of concrete. (1-29)



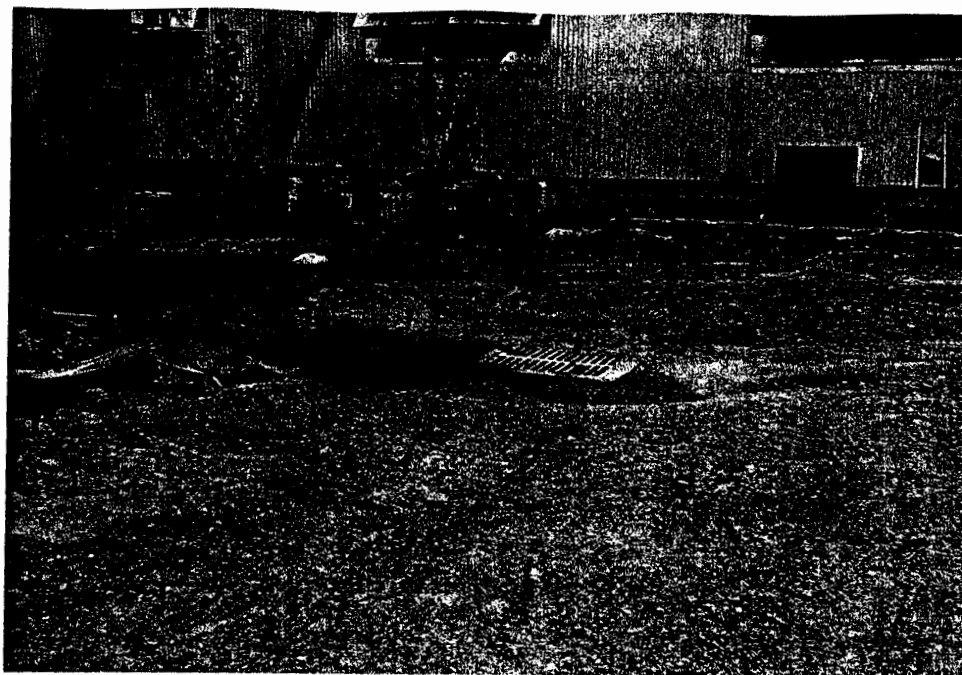
17.2 Close-up panoramic view of the Construction Debris Pile (SWMU 17), facing west.
(1-30, 1-31)



- 17.3 Overview of the Construction Debris Pile (SWMU 17), facing west. Note Chatham Scrap Metal facility is in the background. The blue metal tank to the left is labeled as scrap. (1-32)



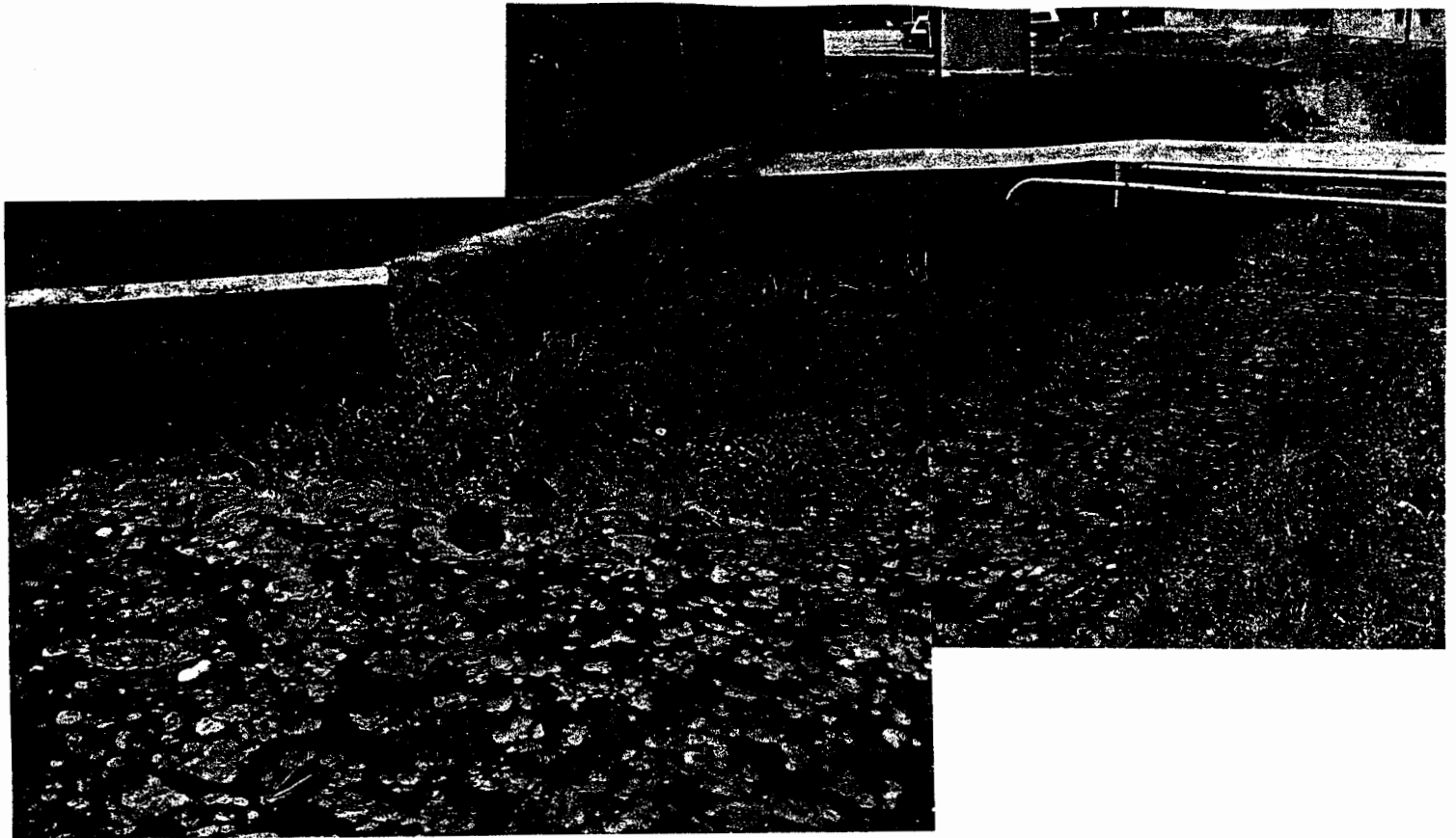
- 18.1 View of a grate for the Storm Water System (SWMU 18) in the foreground. The Area Adjacent to West Side of Main Facility Building (SWMU 1) is in the background. The drums shown in the background contain solidified coal tar. (1-19)



18.2 One of the Storm Water System (SWMU 18) grates, facing east. Note the main facility building is in the background. (2-33)

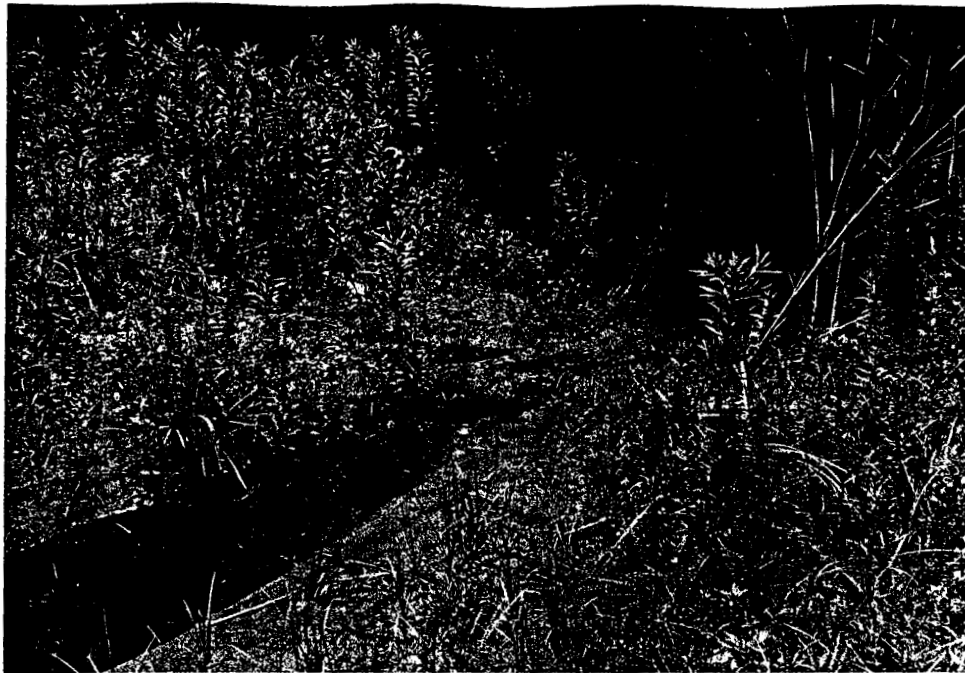


18.3 View of the point for the Storm Water System (SWMU 18) discharge to the Chatham Scrap Metal facility, facing west. (3-10)



19.1

Panoramic view of Drainage Ditch (SWMU 19), from east to south. According to the facility, the dark coloration and scum on the surface is from the recent top soil application. The top soil application can be seen along the east side of the Drainage Ditch (SWMU 19). (2-12, 2-13)



19.2 Discharge point for the Drainage Ditch (SWMU 19), facing southeast. Note the flow is relatively low and the ditch is unlined. (2-15)



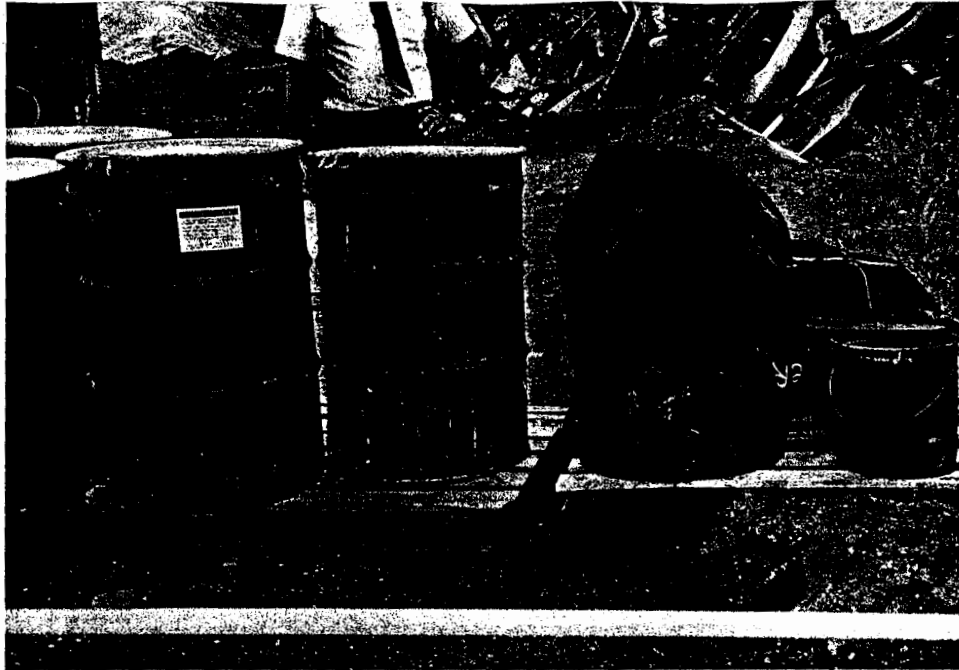
19.3 View of Drainage Ditch (SWMU 19), facing northeast. This portion of the unit is located to the east of the main facility building, upstream from the Ramp Area (SWMU 7) and downstream from the Wheelabrator Dust Collector (SWMU 5). There is a small hose in the center of the photograph which discharges ground water collected in the Wheelabrator Sump (AOC C). (2-16)



19.4 View of the discharge pipe for the Drainage Ditch (SWMU 19), facing northwest. The pipe discharges to the Highway Avenue drainage ditch. (2-19)



20.1 Close-up of the drums in the Paint Can Excavation Drum Storage Area (SWMU 20), facing south. The label indicates that the container may contain hazardous materials and that laboratory analyses are pending. (2-25)



20.2 View of old and crushed drums at the Paint Can Excavation Drum Storage Area (SWMU 20), facing south. (3-11)



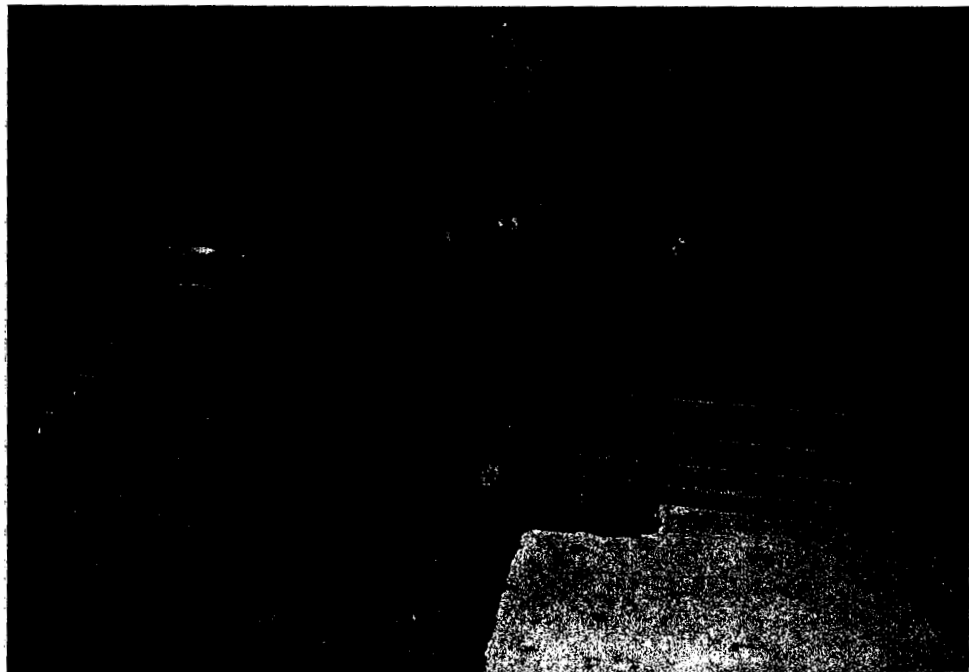
21.1 Close-up view of the Construction Debris/Soil Pile (SWMU 21), facing west. Note the crushed drum in the left foreground. (2-24)



A.1 Overview of the Compressor Area (AOC A), facing east. Note the dark staining on the soil along the base of the concrete pad from recent leakage of the air compressor. (2-9, 2-10)

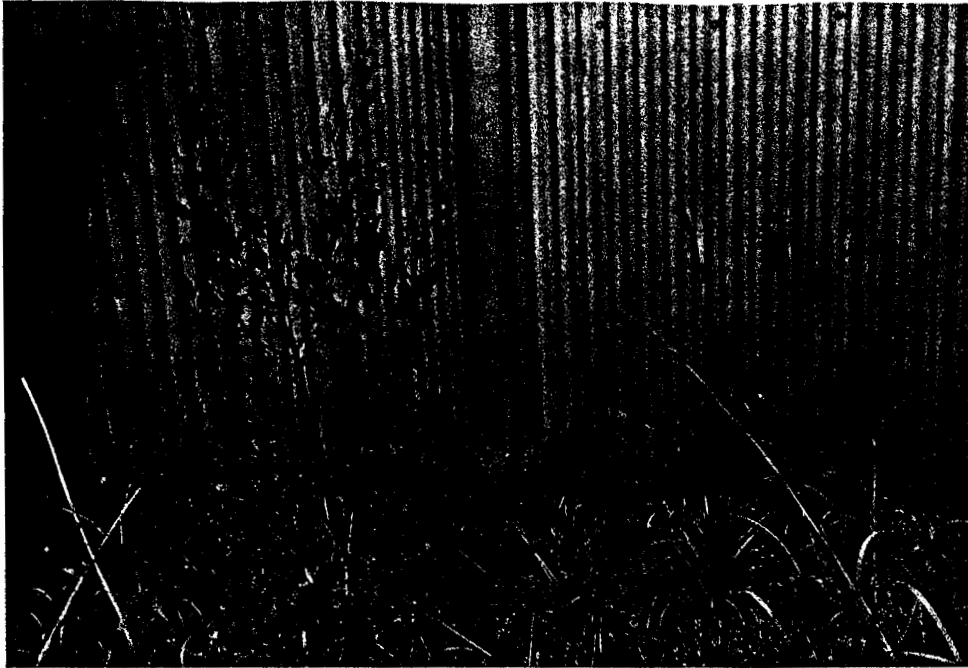
B.1

See Photograph 7.2.



C.1

View of the pipe from the Wheelabrator Sump (AOC C), facing north. Note the pipe in the photograph carries ground water removed from the low point in the sump. (3-5)



C.2

View, facing west of the pipe from the Wheelabrator Sump (AOC C), as it exits the building and connects to a hose for discharge to the Drainage Ditch (SWMU 19). (3-6)

APPENDIX C

SUPPLEMENTAL PHOTOGRAPHIC LOG

FROM 1990

FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (FDER)

INSPECTION

Note: The Supplemental Photographic Log contains photographs taken during a FDER hazardous waste compliance inspection conducted at the Dura-Bond facility on October 22, 1990. Upon the request of EPA, these photographs were included in this report to compare previous conditions with current site conditions.



1.5 View of the Area Adjacent to West Side of Facility Building (SWMU 1), facing southwest. Note the red coloration on the ground adjacent to step.



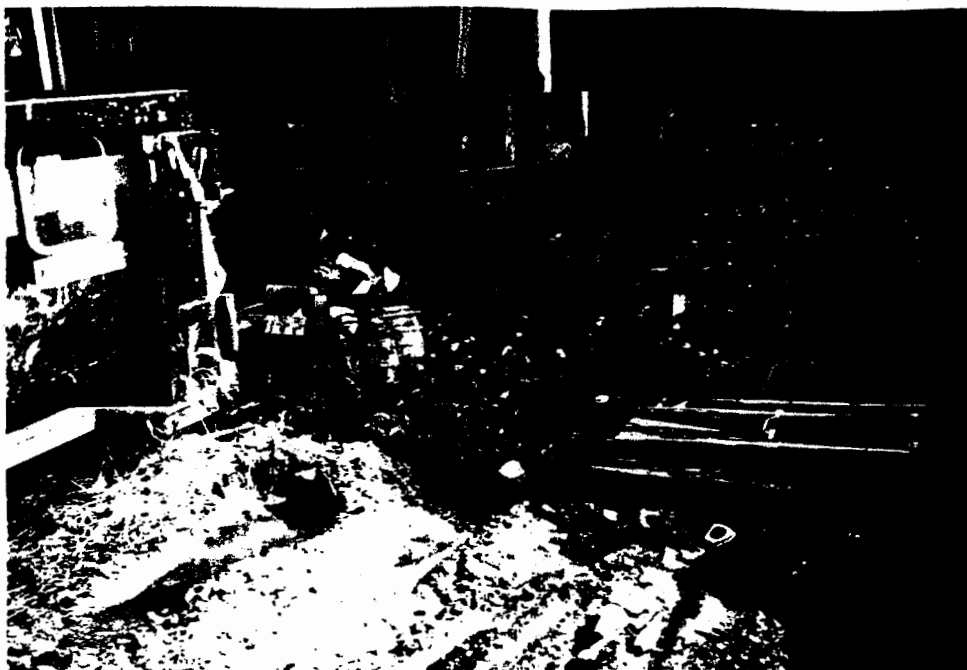
1.6 View of the Area Adjacent to West Side of Facility Building (SWMU 1), facing south. Note the bucket on the pallet appears to and reportedly contains paint waste containing methyl ethyl ketone (EPA Waste Code F005). The soil appears to be stained and the vegetation is stressed.



- 1.7 View from inside the facility building looking southwest at the Area Adjacent to West Side of Facility Building (SWMU 1). Note the area is stained and there appears to be paint on the wall on the sheet metal in the background. The vegetation also appears stressed.



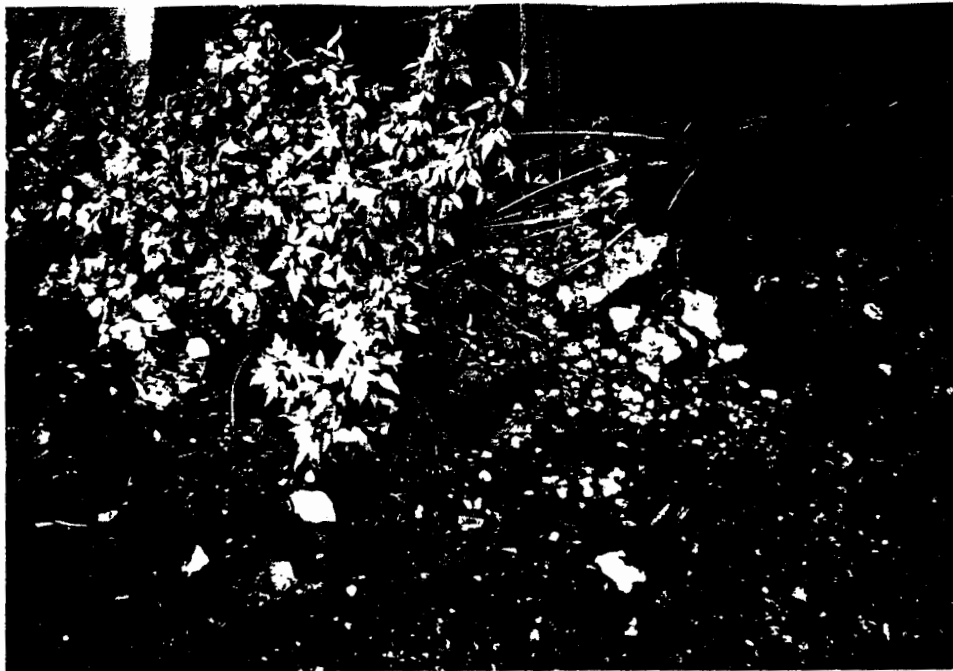
- 1.8 View from the inside of the building looking out toward the Area Adjacent to West Side of Facility Building (SWMU 1). There appears to be red staining on the vegetation.



2.2 View of the Area Immediately Adjacent to Dumpster (SWMU 2), facing northeast. Note the area consists of buckets and paint cans. The dumpster, in the background appears to contain an overturned drum with paint cans.



2.3 Panoramic view of the Area Immediately Adjacent to Dumpster (SWMU 2), facing northeast. Note the assortment of paint cans and buckets in contact with the soil.



2.4 Close-up view of ground staining adjacent to the Area Immediately Adjacent to Dumpster (SWMU 2), facing east.



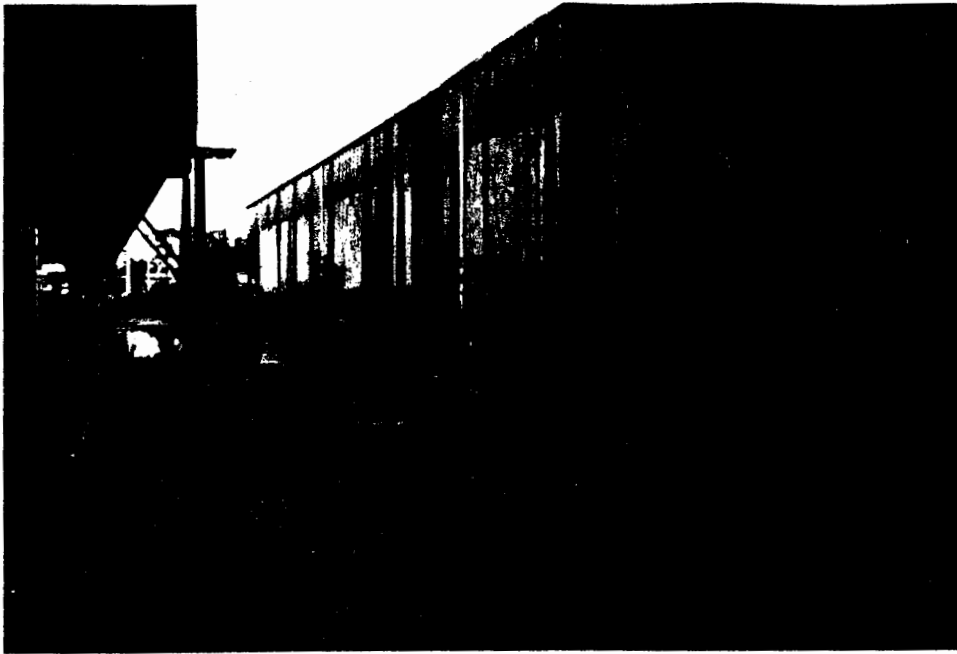
2.5 Close-up view of an overturned drum and material resembling black coal tar adjacent to the Area Immediately Adjacent to Dumpster (SWMU 2), facing north. Note the Temporary Waste Storage Area (SWMU 3) is located to the right of the photograph.



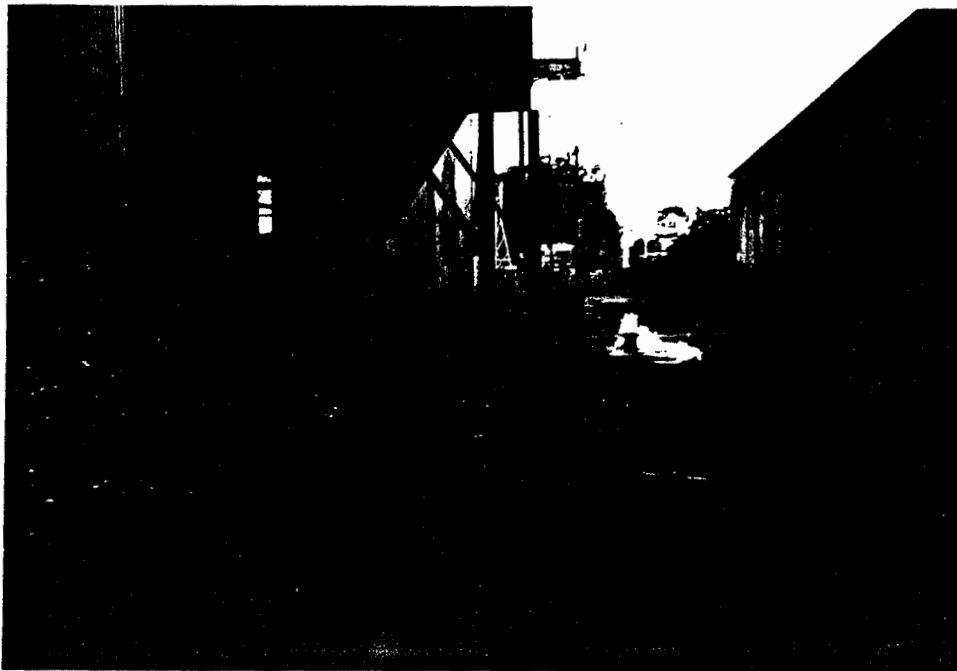
3.3 Overview of the Temporary Waste Storage Area (SWMU 3), facing north. Note the overturned dented drum in the center.



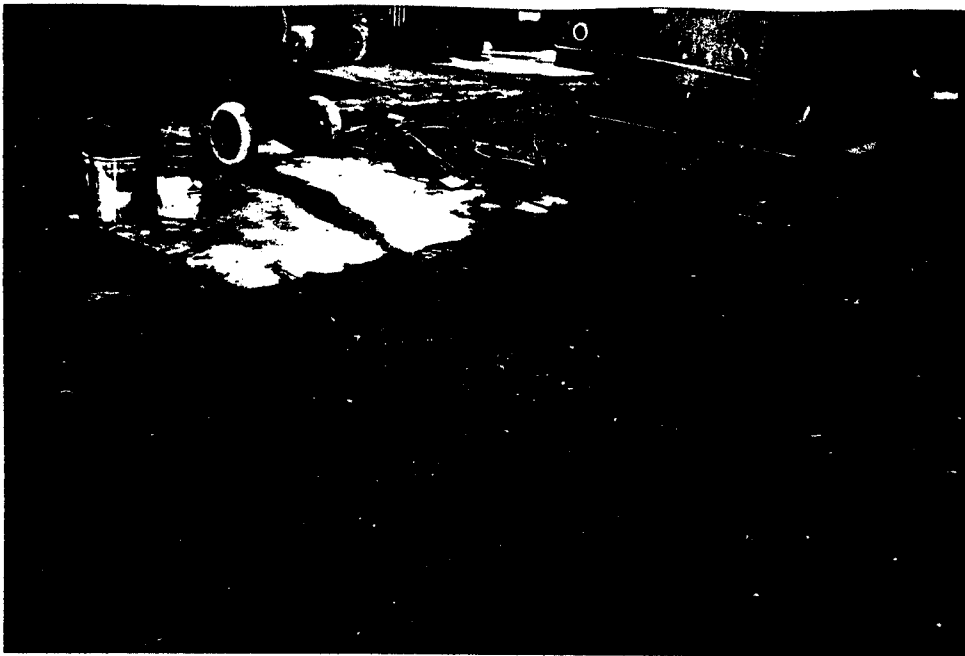
4.4 Close-up of drums containing methyl ethyl ketone waste located adjacent to the Hazardous Materials/Waste Storage Area (SWMU 4), facing west.



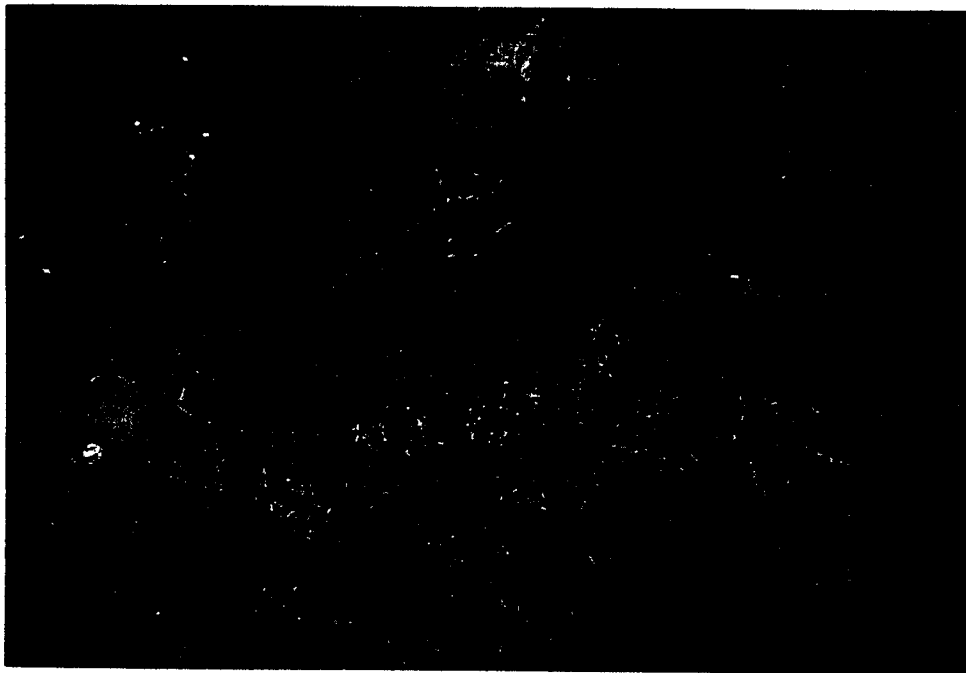
5.4 Overview of the Wheelabrator Dust Collector (SWMU 5), facing northwest. Note the Sandblast Residue Fill Area (SWMU 8) is located in the right background.



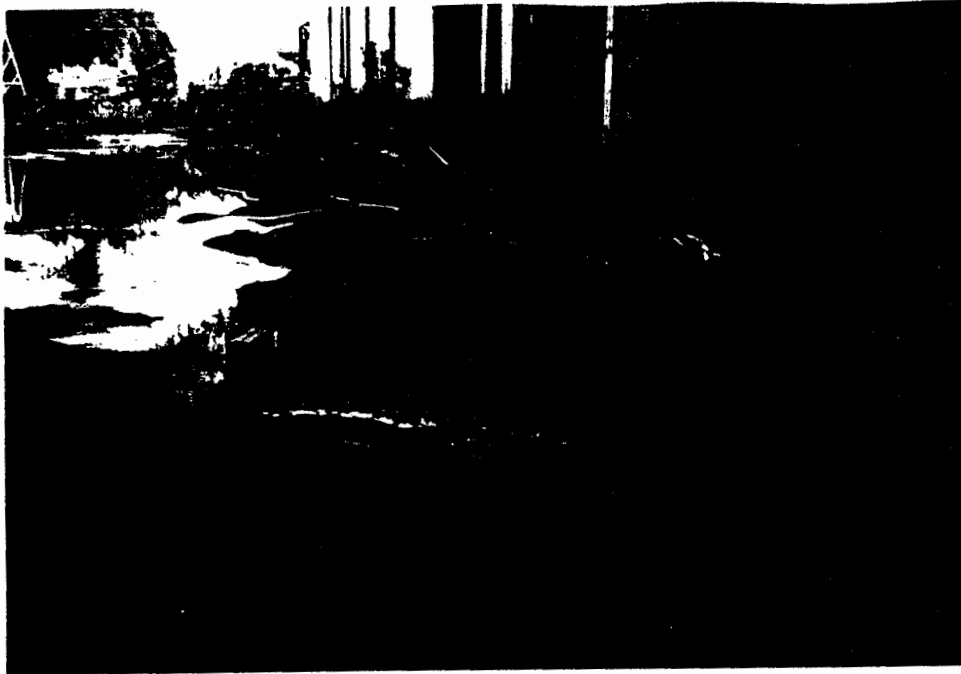
5.5 View of the Wheelabrator Dust Collector (SWMU 5), facing north. Note the wheelabrator dust on the ground beneath the unit.



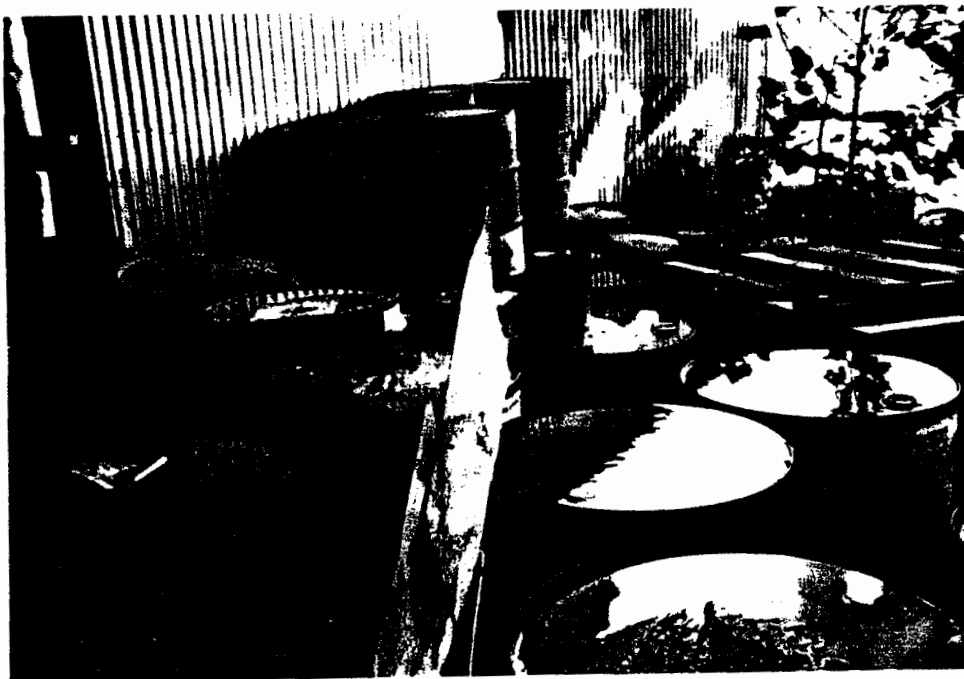
7.4 Overview of the Ramp Area (SWMU 7), facing northwest. Note the concrete ramp and soil appears stained and there is sparse vegetation.



8.3 Close-up view of the Sandblast Residue Fill Area (SWMU 8), facing east. Note the residue pile is much larger than that seen in the 1992 photograph.



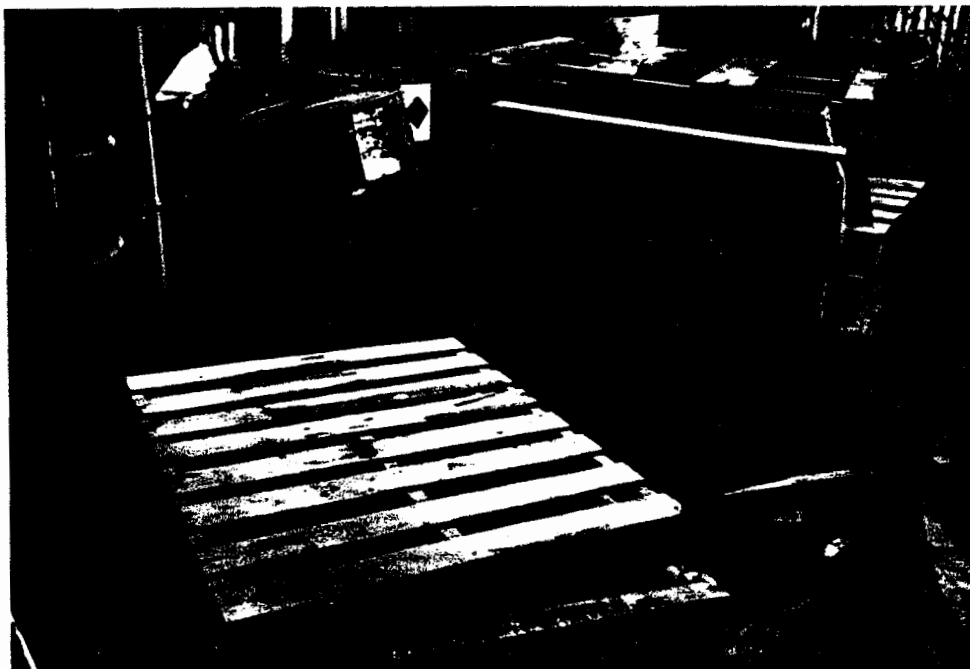
8.4 Overview of the Sandblast Residue Fill Area (SWMU 8), facing north. Note that there is ponding by rainfall, indicating that this is a low area.



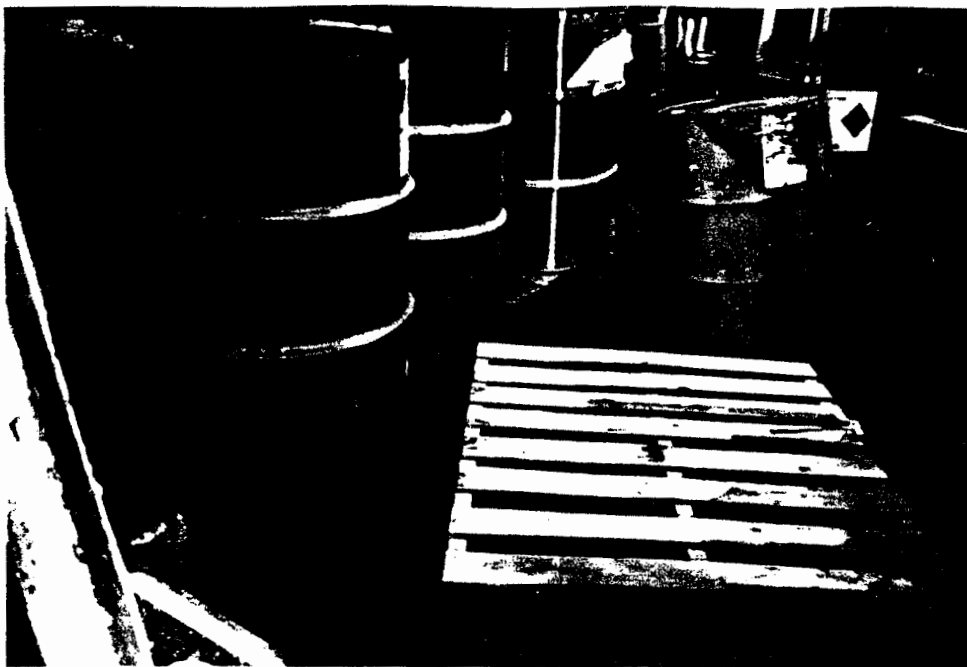
9.3 View of the Historical Outside Storage Area (SWMU 9), facing southwest.



9.4 View of the Historical Outside Storage Area (SWMU 9), facing southwest. Note paint spillage on the concrete and the soil in the background.



9.5 View of the Historical Outside Storage Area (SWMU 9), facing southwest.



9.4 View of the Historical Outside Storage Area (SWMU 9), facing southwest. Note paint spillage on the concrete and the soil in the background.



9.5 View of the Historical Outside Storage Area (SWMU 9), facing southwest.



10.2 View of the area outside of the Blue Shed (SWMU 10), facing an unknown direction. Note the paint cans are covered and most are resting on wooden pallets.



10.3 View of the area outside of the Blue Shed (SWMU 10), facing an unknown direction. Note the drums are positioned on concrete and all have lids.



10.4 View of the area outside of the Blue Shed (SWMU 10), facing an unknown direction. Note the can in the foreground is crushed and some material (possible coal tar) has leaked from the can.



10.5 View of the area outside of the Blue Shed (SWMU 10), facing an unknown direction. Note there appears to be some minor spillage of paint from a paint can on the right hand side of the photograph.



11.1 View of the Sheet Metal Building (SWMU 11), facing an unknown direction. Note the drums appear to be in poor condition.



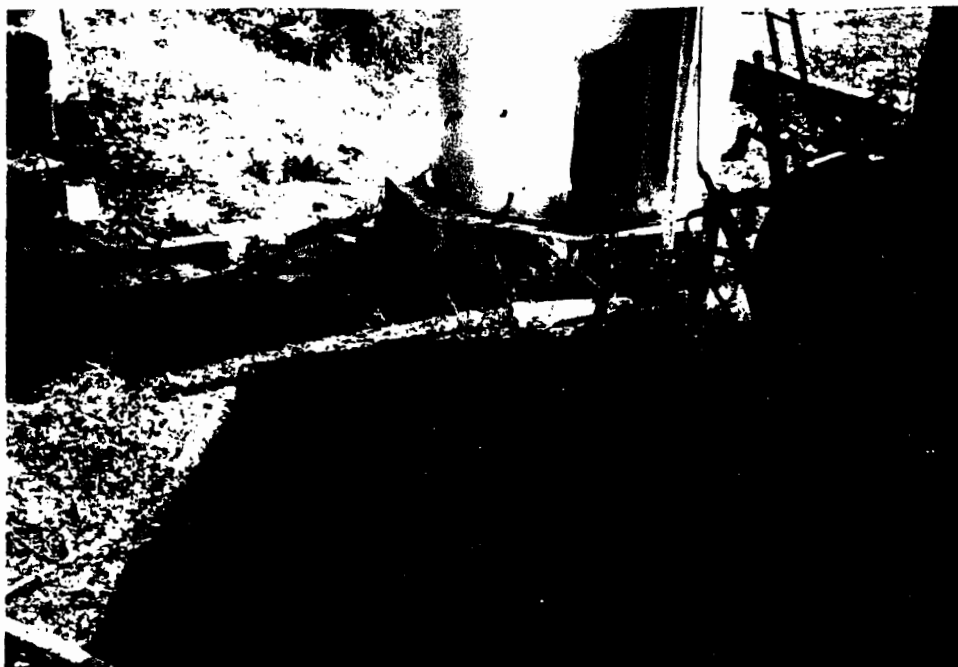
11.2 View of the Sheet Metal Building (SWMU 11), facing an unknown direction. Note the paint cans are closed.



11.3 View inside the Sheet Metal Building (SWMU 11), facing an unknown direction. Note these paint cans are piled in a mound in the background.



12.6 View of the Paint Cans Area (SWMU 12), taken immediately following the discovery of the paint cans in April 1992.



A.2 View of the Compressor Area (AOC A), facing southeast. Note the dark staining on soil around the tank.

APPENDIX D
SWMU LOCATION MAP

LEGEND

| | | |
|--------|---|-------------------------------|
| PAVED | ● | MONITORING WELL |
| ASS | ● | PIEZOMETER |
| ILROAD | ● | SOIL SAMPLING LOCATION |
| YCE | ⊕ | TEST BORING |
| | ○ | SURFACE WATER MEASURING POINT |

SWMU NUMBER

SWMU NAME

SWMU NUMBER

SWMU NAME

1. Area Adjacent to West Side of Main Facility Building
2. Area Immediately Adjacent to Dumpster
3. Temporary Waste Storage Area
4. Hazardous Materials/Waste Storage Area
5. Wheelabrator Dust Collector
6. Waste Oil Tank
7. Ramp Area
8. Sandblast Residue Fill Area
9. Historical Outside Storage Area
10. Blue Shed
11. Sheet Metal Building
12. Paint Cans Excavation Area
13. Covered Soil Pile

14. Uncovered Soil Pile
15. Shot Blast Drum Storage Area
16. Sandblast Area
17. Construction Debris Pile
18. Storm Water System
19. Drainage Ditch
20. Paint Can Excavation Drum Storage Area
21. Construction Debris/Soil Pile
22. Dumpster

AOC

AOC NAME

- A. Compressor Area
- B. Underground and Above Ground Storage Tanks
- C. Wheelabrator Sump

